

PASTOR, BEHLING & WHEELER, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, TX 78664

> Tel (512) 671-3434 Fax (512) 671-3446

September 10, 2015

Via E-mail and Overnight Delivery

Mr. Adam Adams
On Scene Coordinator
U.S. Environmental Protection Agency
Superfund, 6SF-PR
1455 Ross Avenue
Dallas, Texas 75202

Re: Monthly Progress Report – AUGUST 2015 Site Monitoring and Stabilization Activities US Oil Recovery/MCC Recycling Site 400 N Richey/200 N Richey, Pasadena, Texas

Dear Mr. Adams,

On behalf of the US Oil Recovery (USOR) Site PRP Group (PRP Group), Pastor, Behling & Wheeler, LLC (PBW) is pleased to submit this Monthly Progress Report in accordance with the requirements under Section VIII, Paragraph 21 of the Administrative Order on Consent (AOC) for the USOR and MCC Recycling Site (the Site).

Site Activities

Site activities for this reporting period included: (1) routine Bi-Weekly (twice per week) Site Monitoring by Ramboll Environ US Corporation (Ramboll Environ); (2) five pump down responses to remove storm water from Sump 36, Frac Tank A1475B, the North Tank Farm (NTF) and South Tank Farm (STF) secondary containments, the MCC East Lift Station No. 1, and the MCC West Primary Clarifier; and (3) performance of equipment "early action" activities by Effective Environmental, Inc. (Effective) in preparation for addressing residual waste material in Equipment Items EQ-07 thru EQ-10.

<u>Bi-Weekly Site Monitoring</u> – Ramboll Environ continued routine Bi-weekly Site Monitoring during this reporting period. A total of nine Site Monitoring events were conducted in August 2015. Scanned copies of the completed Site Conditions Checklists (SCCs) are provided as Attachment 1. No significant changes in Site conditions were observed during the August 2015 Site Monitoring activities. No photographic documentation of August 2015 Site Monitoring events was prepared due to lack of changed site conditions during this reporting period.

<u>Pump Down Responses</u> – Ramboll Environ scheduled a routine pump down response on August 3, 2015 to remove the remaining liquid from Frac Tank A1475B at the USOR property, which was used to contain storm water from the NTF and STF secondary containments pump down responses in May and June 2015. The removal of storm water was conducted on August 3, 2015 as follows:

- Frac Tank A1475B (containing NTF and STF water) A total of approximately 2,500 gallons (one partial tanker truck load); and
- NTF A total of approximately 2,500 gallons (one partial tanker truck load).

In anticipation of forecast rain for the site, Ramboll Environ initiated a pump down response on August 20, 2015 to provide additional freeboard in Sump 36. The removal of storm water was conducted on August 20, 2015 as follows:

Sump 36 – A total of approximately 5,100 gallons (one tanker truck load).

In anticipation of forecast rain for the site, Ramboll Environ initiated a pump down response on August 24, 2015 to provide additional freeboard in the MCC West Primary Clarifier. The removal of storm water was conducted on August 24, 2015 as follows:

Primary Clarifier – A total of approximately 5,087 gallons (one tanker truck load).

Due to recent rainfall at the site, Ramboll Environ initiated a pump down response on August 27, 2015 to provide additional freeboard in the NTF and STF secondary containments. The removal of storm water was conducted on August 27, 2015 as follows:

- NTF A total of approximately 5,145 gallons (one tanker truck load); and
- STF A total of approximately 5,000 gallons (one tanker truck load).

Due to recent rainfall at the site, Ramboll Environ initiated a pump down response on August 31, 2015 to provide additional freeboard in the NTF secondary containment and MCC East Lift Station No. 1. The removal of storm water was conducted on August 31, 2015 as follows:

- NTF A total of approximately 5,000 gallons (one tanker truck load); and
- Lift Station No. 1 A total of approximately 5,092 gallons (one tanker truck load).

The storm water from all pump down response events was transported off-site to the Intergulf Pasadena, Texas facility for disposal. Scanned copies of the Intergulf Shipping Manifests are included as Attachment 2.

Equipment "Early Action" Activities - In preparation for addressing residual waste material in Equipment Items EQ-07 thru EQ-10, Effective inspected and removed liquids from these equipment hoppers on August 27, 2015. Oil and water were removed from EQ-07, EQ-09 and EQ-10 (no recoverable liquids were observed in EQ-08) and transferred to a total of three separate totes brought on-site by Effective for temporary on-site storage pending off-site disposal.

Sampling Activities

A sample of the liquid in Equipment Item EQ-07 was collected by Effective on July 8, 2015. Laboratory analyses of this sample were completed in August. The analytical results and validation report for this sample are provided in Attachment 3.

Mr. Adam Adams September 10, 2015 Page 3 of 3

Next Reporting Period - Anticipated Actions, Issues and Schedule

Routine Site Monitoring activities will continue on a bi-weekly (twice per week) basis. Additional Site activities anticipated for September 2015 include: (1) pump down responses, as needed; and (2) continued performance of equipment "early action" activities to address residual waste material in Equipment Items EQ-02, EQ-07 thru EQ-10, and EQ-29.

The PRP Group has requested assistance from the City of Pasadena (and EPA) to identify potential additional mechanisms for closing off apparent hydraulic connections from former Vince Bayou Wastewater Treatment Plant process units on the MCC East Property to Lift Station No. 1 as a means of reducing the potential for overflows from the lift station that may result from stormwater inflow into those units.

Thank you for the opportunity to submit this progress report. Please contact us if you have any questions or comments.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC

Eric F. Pastor, P.E. Principal Engineer eric.pastor@pbwllc.com

512.671.3434

Attachments

Attachment 1 - Site Conditions Checklists

Attachment 2 - August 2015 Intergulf Shipping Manifests

Attachment 3 - Analytical and Validation Reports - EQ-07 Liquid Sample

Attachment 1
Site Conditions Checklists

Date: 08/03/2015

General Information

Day & Date: MONDAY , 08/03/2015
Arrival Time: 07:00
Departure Time: <u>O9:00</u>
Type of Visit:Unscheduled
Site Inspection Personnel:
J. GUZMAN (RAMBOLL ENVIRON)
L.NGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit:
HOT, HUMID, SUNNY
Comments (if any):
INTERGULF REMOVED APPROXIMATELY 2,500 GALLONS FROM
FRACTIONIC A 1475 B, LOCATEDIAT USOR'S, AND 2,500 GALLONS
FROM NORTH THANK FARH SECONDARY CONTAINMENT FOR OFF-SITE
DISPOSAL AT INTERGULE'S PASADENA, TEXAS FACILITY.

Date: 08/03/2015

Weather Forecast and Notable Weather Elements:

General Forecast

MOSTLY	N YUUNZ	THE MORNI	<u> 1457</u>	<u> PARTIY (LO</u>	MM MITH
A SUGHT	CHANCE OF	SHOWERS	AND THUI	JOEPSTORNS	IN THE
HET EELVOON	J				

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	G	80/96	10%	N/A	N/A
MONDAY	X	79/95	20%	0.00 IN	5-10MPH, N
TUESDAY	П	79/95	20%	0.001N	10-15MPH, S
WEDNESDAY	П	79/94	10%	0.00114	IOTSMPH/S
THURSDAY		80/96	10%	0.0011	N/A
FRIDAY		80/96	10%	0.001N	N/A
SATURDAY		80/96	10%	0.00IN	N/A

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

A WEAK AREA OF LOW PRESSURE LOCATED OVETZ NORTH-CENTRAL
FLORIDG MOVING NORTH EASTWARD AT 5-10 MPH AND HAS 10% CHANCE
OF FROMUNG FORMATION OVER THE NEXT 5 DAYS

Date: 08/03/2015

USOR Property

Bay 48

Site a	nd Perimeter Conditions	(circle or	ne)
4	Any Locks Missing?	Yes	W9/
2	•	Yes	(10)
Ŋ.	-	Yes	ã
02	<u> </u>	Yes	(ND)
2	•	Yes	(ND)
	•	(Explain all "Yes" answers	s below)
Gene	ral Observations		
(S	Any Evidence of Staining?	Yes	(Ñŋ
2		Yes	Mo
S		Yes	(NO
5		Yes	(NO
	,	(Explain all "Yes" answers	s below)
ASTs			
Ŋ	Any Evidence of Vandalism/Trespassing?	Yes	(NB
Ď	• • •	Yes	(N)
,		Yes	(NO)
		(Explain all "Yes" answers	s below)
Drum	n/Tote Storage Area		
Not A	applicable – Drums/Totes Removed as of January 2015		
Roll-0	Off Boxes		
Not A	applicable – Roll-Off Boxes Emptied as of April 2015		
Freeb	ooard Measurements		
North	Tank Farm Secondary Containment	n_14_i	nches
South	n Tank Farm Secondary Containment	ft_ <u>l2i</u>	inches
Sump	34 (estimated)	ft_ <u>35</u> _i	inches
Sump	35	ft_35_i	inches
Sump	36	ft <u>36_</u> i	inches
Bay 4	5	f <u></u> ff	nches

_ft_22_inches

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/03/2015				
Any freeboard levels < 6 inches from the top of the containment?	Yes		(No)		
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)		
Potential for Off-Site Migration					
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No)		
Bioreactor (not applicable – Bioreactor removed as of April 2014)					
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)		
Issues for Potential Corrective Action					
NONE					

If Yes, has the Project Coordinator been notified?

Date: 08/03/2015

MCC West Property

Site a	nd Perimeter Conditions	(circle one)
wite 01		(00.0	,
X	Any Locks Missing?	Yes	(B)
X	Any Gates Damaged, Not Functional or Not Closed?	Yes	(II)
(23	Any Fence Damage Since Previous Site Visit?	Yes	(Np)
K	Any Containment Structures Leaking?	Yes	(M)
Ŋ	Have Other Physical Conditions Changed?	Yes	(O)
		(Explain all "Yes" answers b	elow)
Gener	al Observations		
X	Any Evidence of Staining?	Yes	(No)
00	Any Change to Existing Stained Areas?	Yes	(No)
(X)	Any Evidence of Off-Site Staining?	Yes	(NO)
Ŋ	Any Odor Observed Emanating from the Site?	Yes	(SO)
	, and the second	(Explain all "Yes" answers b	elow)
Lift St	ations #2 and #3		
∑	Any Evidence of Vandalism/Trespassing?	Yes	(No)
(XI	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(NO)
, (X)	Have Other Physical Conditions Changed?	Yes	(N ₀)
•	, C	(Explain all "Yes" answers b	elow)
Poten	tial for Off-Site Migration		
Aerati	on Basin (Final Clarifier)	Yes	(No)
Prima	y Clarifier	Yes	(M)
High F	ate Trickling Filter	Yes	No

Yes

USOR-MCC Bi-Weekly Site Monitoring Checklist

Issues for Potential Corrective Action

NONE

Date: <u>08/03/2015</u>

MCC East Property

Site an	d Perimeter Conditions	(ci	rcle one)
Ø	Any Locks Missing?	Yes	(N)
(X)	Any Gates Damaged, Not Functional or Not Closed?	Yes	滿
(XI	Any Fence Damage Since Previous Site Visit?	Yes	(Mo
(32)	Any Containment Structures Leaking?	Yes	M
ÇΧΙ	Have Other Physical Conditions Changed?	Yes	اه
		(Explain all "Yes" a	answers below)
Genera	al Observations		
W	Any Evidence of Staining?	Yes	(NO)
X	Any Change to Existing Stained Areas?	Yes	<u>@</u>
Ø	Any Evidence of Off-Site Staining?	Yes	(NO)
Ø	Any Odor Observed Emanating from the Site?	Yes	(NO)
		(Explain all "Yes" a	answers below)
Pump	Control Room & Lift Station #1		
(XI	Any Evidence of Vandalism/Trespassing?	Yes	(N)
Ø	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(Ñ)
X	Have Other Physical Conditions Changed?	Yes	No)
		(Explain all "Yes" a	answers below)
Freebo	ard Measurements		
Chlorin	e Contact Tank	ft	<u>29</u> inches
	eeboard levels < 6 inches from the top of the containment?	ft Yes	<u>29</u> inches
Any fre		Yes	29_inches (No) No (N/A)
Any fre	eeboard levels < 6 inches from the top of the containment?	Yes	(N)
Any fre	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified?	Yes	(N)
Any free If Yes, Potent Lift Sta	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes I	(NO) No (N/A)
Any free If Yes, Potent Lift Sta	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration tion #1	Yes Yes	(NO) No (N/A)
Any free If Yes, Potent Lift Sta Primar Primar	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1	Yes Yes Yes Yes	(NO) No (NA) (NO) (NO)
Any free If Yes, Potent Lift Sta Primar Primar Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1	Yes Yes Yes Yes Yes	(NO) No (NA) (NO) (NO) (NO) (NO) (NO) (NO) (NO)
Any free If Yes, Potent Lift Sta Primar Primar Oxyger Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1	Yes Yes Yes Yes Yes Yes Yes	
Any free If Yes, Potent Lift Sta Primar Primar Oxyger Oxyger Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1 n Digester #2	Yes Yes Yes Yes Yes Yes Yes Yes	
Any free If Yes, Potent Lift Sta Primar Primar Oxyger Oxyger Oxyger Former	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1 n Digester #2 n Activated Sludge Tank	Yes	(2) (2) (2) (2) (2) (2) (2)

If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Issues for Potential Corrective Action			

Date: <u>108/03/2015</u>

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NONE				
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Date: 00/03/2015

Site Monitoring Explanations	
USOR	
-NONE	
MCC EAST	
TNONE	
MCC WEST	
- NONE	
	000000000000000000000000000000000000000

Date: 08/06/2015

General Information

Day & Date: THURSDAY, 08/06/2015
Arrival Time: 07:00
Departure Time: 08:00
Type of Visit: Routine Unscheduled
Site Inspection Personnel:
J. PENNINGTON (RAMBOLL ENVIRON)
L.NGUYEN (RAMBOLL ENVIRON)
J. PATTERSON (WESTON)
Weather Conditions During Site Visit:
HOT, HUMID
Comments (if any):

Date: 08/00/2015

Weather Forecast and Notable Weather Elements:

General Fore	cast							
PARTU	CLOUDY	ENCLY	IN	ТНЕ	MORNING	THEN	<u> PE(OMING</u>	MOSTLY
SUNNY								000000000000000000000000000000000000000
·····	•••••							······································

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		79/9B	10%	0.00 / N	N/A
MONDAY	О	80/98	10%	0.00 IN	N/A
TUESDAY	П	79/98	10%	0.00 IN	N/A
WEDNESDAY	О	81/98	20%	N/A	N/A
THURSDAY	Д	80/95	10%	0.00 IN	10-15 MPH 1S
FRIDAY		80/96	10%	0.001N	10-15MPH,S
SATURDAY	О	80/97	10%	0.001N	5-10 MPH 15W

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

In	0 1	°orm	Our	tlook
2 5 2 2	88° 8	5~3 B 3 S	C 3 E 3	K 2 C 2 C 3 C A

TROPICAL	CYCLONE	FORMATION	ιS	NOT	EXPECTED	DURING	ME
NEXT 5							

Date: 08/06/2015 **USOR-MCC Bi-Weekly Site Monitoring Checklist USOR Property Site and Perimeter Conditions** (circle one) Any Locks Missing? Yes (No) (ND) Any Gates Damaged, Not Functional or Not Closed? Yes Any Fence Damage Since Previous Site Visit? Yes Any Evidence of Vandalism/Trespassing? Yes Have Other Physical Conditions Changed? Yes (Explain all "Yes" answers below) **General Observations** NO) Any Evidence of Staining? Yes Any Change to Existing Stained Areas? Yes Any Evidence of Off-Site Staining? Yes NO) Any Odor Observed Emanating from the Site? Yes (NO) (Explain all "Yes" answers below) **ASTs** Any Evidence of Vandalism/Trespassing? Yes Any Weeping or Dripping Tanks or Valves? Yes Yes (Explain all "Yes" answers below) **Drum/Tote Storage Area** Not Applicable - Drums/Totes Removed as of January 2015 **Roll-Off Boxes** Not Applicable - Roll-Off Boxes Emptied as of April 2015 **Freeboard Measurements** _ft__U__inches North Tank Farm Secondary Containment _ft<u>【3</u>_inches South Tank Farm Secondary Containment ft 30 inches Sump 34 (estimated) ft_36_inches Sump 35

Sump 36

Bay 45

Bay 48

ft_36_inches

ft 15 inches

ft 2-2 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/06/2015			
Any freeboard levels < 6 inches from the top of the containment?	Yes	i	(No)	
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Potential for Off-Site Migration				
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(10)	
Bioreactor (not applicable – Bioreactor removed as of April 2014)				
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Issues for Potential Corrective Action NONE				
		•••		
	***************************************		000000000000000000000000000000000000000	

If Yes, has the Project Coordinator been notified?

Date: 08/06/2015

MCC West Property

Site a	nd Perimeter Conditions	(circle one	·)
ķ	Any Locks Missing?	Yes	(No)
DX	Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
Ø	Any Fence Damage Since Previous Site Visit?	Yes	(100
×	Any Containment Structures Leaking?	Yes	(No)
Þ	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answers b	elow)
Gener	al Observations		
(XI	Any Evidence of Staining?	Yes	(Ñð)
Ņ	Any Change to Existing Stained Areas?	Yes	NO
(XI	Any Evidence of Off-Site Staining?	Yes	(NO)
X	Any Odor Observed Emanating from the Site?	Yes	M
		(Explain all "Yes" answers b	elow)
Lift St	ations #2 and #3		
塓	Any Evidence of Vandalism/Trespassing?	Yes	(O)
X	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
Ø	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answers b	elow)
<u>Poten</u>	tial for Off-Site Migration		
Aerati	on Basin (Final Clarifier)	Yes	(No)
Prima	ry Clarifier	Yes	(No)
High F	ate Trickling Filter	Yes	(10)

Yes

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>08/06/2015</u>
Issues for Potential Corrective Action	

Date: 08/06/2015

MCC East Property

Site an	d Perimeter Conditions	(circle o	ne)
(20)	Any Locks Missing?	Yes		(No)
50	Any Gates Damaged, Not Functional or Not Closed?	Yes		(No)
2	Any Fence Damage Since Previous Site Visit?	Yes		Mo
X	Any Containment Structures Leaking?	Yes		নৈ
Ø	Have Other Physical Conditions Changed?	Yes		NOV
	, C	(Explain all "Yes	answe	rs below)
Genera	l Observations			
QQ	Any Evidence of Staining?	Yes		(N)
X	Any Change to Existing Stained Areas?	Yes		(MD)
(23)	Any Evidence of Off-Site Staining?	Yes		(NO)
(2)	Any Odor Observed Emanating from the Site?	Yes		(NO)
		(Explain all "Yes	answe"	rs below)
Pump (Control Room & Lift Station #1			
മ	Any Evidence of Vandalism/Trespassing?	Yes		(N)
N	Any Caps/Lids Damaged, Missing or Not Closed?	Yes		(No)
×	Have Other Physical Conditions Changed?	Yes		(NO)
•	,	(Explain all "Yes	answe	rs below)
Freebo	ard Measurements			
Chlorin	e Contact Tank	ft	<u> 39</u>	inches
	e Contact Tank eboard levels < 6 inches from the top of the containment?	ft	<u> 39</u>	inches
Any fre		ft Yes	<u>39</u>	inches (No)
Any fre	eboard levels < 6 inches from the top of the containment?			(No)
Any fre	reboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration			(No)
Any free If Yes, I Potent	reboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes		(No (N/A)
Any free If Yes, Potent Lift Sta	has the Project Coordinator been notified? lial for Off-Site Migration	Yes Yes		(Ng) (N/A) (Ng)
Any free If Yes, I Potent Lift Sta Primary	teboard levels < 6 inches from the top of the containment? that the Project Coordinator been notified? tion #1 y Clarifier #1	Yes Yes Yes		(N) (N/A) (N) (N) (N) (N) (N) (N) (N)
Any free If Yes, I Potent Lift Sta Primary Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2	Yes Yes Yes Yes		
Any free If Yes, Potent Lift Sta Primary Oxyger Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 i Digester #1	Yes Yes Yes Yes		
Any free If Yes, If Ye	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 i Digester #1 i Digester #2	Yes Yes Yes Yes Yes Yes		
Any free If Yes, If Ye	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 a Digester #1 Digester #2 Activated Sludge Tank	Yes Yes Yes Yes Yes Yes Yes		(2) (2) (2) (2) (2) (2) (3) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

If Yes, has the Project Coordinator been notified?	Yes	No	(N/A
Issues for Potential Corrective Action			

	m0/21	In nem
Date:	08/66	

Summary of Photographs	
Photo File Name = PXX	X-08003015 (P#-MMDDYYYY)
NONE	
	Photo Page

Date: 68/06/2015 **USOR-MCC Bi-Weekly Site Monitoring Checklist Site Monitoring Explanations** <u>usor</u> -NONE MCC FAST -NONE MCC WEST -NONE

Explanations Page

Date: 08/10/2015

General Information

Day & Date: MONDAY, 08/10/2015
Arrival Time: 07:00
Departure Time: 07:40
Type of Visit:
Site Inspection Personnel:
J. PENNINGTON (RAMBOLL ENVIRON)
L. NGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit:
CLEAR SKIES, WIND BLOWING FROM THE FAST
Comments (if any):

Date: 08/10/2015

Weather Forecast and Notable Weather Elements:

General Forec	cast					
PARTLY	MUMAN	ENLLY	IN THE	<u> 400 NING</u>	THEN	BECOMING
MOSTLY	SUNW					
					••••	
·					······	

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	П	78/95	30%	NA	NA
MONDAY	À	80/100	10%	0.00 I N	5-10MPH,W
TUESDAY		80/100	20%	0.051N	5MPH, NW
WEDNESDAY		80/97	30%	0.081N	SMPH, NW
THURSDAY		80/96	20%	0.05IN	NA
FRIDAY		79/97	10%	0.0011	NA
SATURDAY		78/98	20%	NA	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL CYCLONE FORMATION IS NOT EXPECTED DURING THE NEXT 5 DAYS.

Date: <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Date:_	08/	<u>10/2</u>	015
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USOR Property

Bay 48

USUK	Property		
Site a	nd Perimeter Conditions	(circle	one)
Ø	Any Locks Missing?	Yes	(N)
00		Yes	(NO)
Q	•	Yes	MO)
×		Yes	Mo)
K		Yes	(on
		(Explain all "Yes" answ	vers below)
Canar	al Observations		
Gener	ai Observations		
(X)	Any Evidence of Staining?	Yes	(No)
X	Any Change to Existing Stained Areas?	Yes	(NO)
X	Any Evidence of Off-Site Staining?	Yes	(No)
×	Any Odor Observed Emanating from the Site?	Yes	(No)
		(Explain all "Yes" answ	ers below)
ASTs			
			/m
M	Any Evidence of Vandalism/Trespassing?	Yes	(No)
Ŋ		Yes	(M)
X	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answ	ers below)
Drum,	/Tote Storage Area		
Not A	oplicable – Drums/Totes Removed as of January 2015		
Roll-O	ff Boxes		
Not A	oplicable – Roll-Off Boxes Emptied as of April 2015		
<u>Freeb</u>	pard Measurements		
North	Tank Farm Secondary Containment	ft_ <u>lb</u>	inches
South	Tank Farm Secondary Containment	ft_ <u>U</u>	inches
Sump	34 (estimated)	ft_ <u>36</u>	_inches
Sump	35	ft_ <u>36</u>	inches
Sump	36		inches
Bay 45	5	ft_ <u>lb</u>	inches

____ft_<mark>__ft__inches</mark>

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>09</u> /	2015	
Any freeboard levels < 6 inches from the top of the containment?	Yes		(No)
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Potential for Off-Site Migration			
Containment Pond Freeboard less than 2 feet (estimated)	Yes		<u>(No)</u>
Bioreactor (not applicable – Bioreactor removed as of April 2014)			
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Issues for Potential Corrective Action			

		************************	***************************************
	-	······································	

MCC West Property

Site and Perimeter Conditions	(circ	le on	ıe)

X	Any Locks Missing?	Yes	(No)
X I	Any Gates Damaged, Not Functional or Not Closed?	Yes	(NO)
Ø	Any Fence Damage Since Previous Site Visit?	Yes	00
X	Any Containment Structures Leaking?	Yes	(II)
X	Have Other Physical Conditions Changed?	Yes	No)

(Explain all "Yes" answers below)

General Observations

X	Any Evidence of Staining?	Yes	(10)
Ø	Any Change to Existing Stained Areas?	Yes	(P)
M	Any Evidence of Off-Site Staining?	Yes	(M)
Ø	Any Odor Observed Emanating from the Site?	Yes	(NO)
		(Explain all "Yes" answers t	relow)

Lift Stations #2 and #3

ÇX)	Any Evidence of Vandalism/Trespassing?	Yes	(49)
X	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	নৈৰ্
X	Have Other Physical Conditions Changed?	Yes	<u>M</u>
		(Fundate all (Mas)) assure	un la al assa)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier)	Yes	(M)
Primary Clarifier	Yes	(N ₀)
High Rate Trickling Filter	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>08/10/2015</u>
Issues for Potential Corrective Action	
NONE	

MCC East Property

Mice East 1 Openty						
Site an	Site and Perimeter Conditions (circle one)					
×	Any Locks Missing?	Yes	(a)			
×	Any Gates Damaged, Not Functional or Not Closed?	Yes	(Vio			
Ø	Any Fence Damage Since Previous Site Visit?	Yes	(No			
Ø	Any Containment Structures Leaking?	Yes	6 9			
X	Have Other Physical Conditions Changed?	Yes	(NO)			
		(Explain all "Yes	" answers below)			
Genera	al Observations					
Ø	Any Evidence of Staining?	Yes	(No)			
Ø	Any Change to Existing Stained Areas?	Yes	(No			
Ø	Any Evidence of Off-Site Staining?	Yes	<u>@</u>			
凶	Any Odor Observed Emanating from the Site?	Yes	(NO)			
		(Explain all "Yes	" answers below)			
Pump (Control Room & Lift Station #1					
Ø	Any Evidence of Vandalism/Trespassing?	Yes	(D)			
×	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(10)			
×	Have Other Physical Conditions Changed?	Yes	(677)			
		(Explain all "Yes	" answers below)			
Freeboard Measurements						
Freebo	ard Measurements					
	e Contact Tank	ft_	31_inches			
Chlorin		ft Yes	31_inches			
Chlorin	e Contact Tank	**************************************	31 inches			
Chlorin Any fre	ee Contact Tank eeboard levels < 6 inches from the top of the containment?	Yes	(10)			
Chlorin Any fre	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes	(10)			
Chlorin Any fre If Yes, Potent Lift Sta	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes Yes	No (N/A)			
Chlorin Any fre If Yes, Potent Lift Sta Primare	tion #1	Yes Yes	(No No (N/A)			
Chlorin Any fre If Yes, Potent Lift Sta Primare	tion #1 Ce Contact Tank Ce Contact Tan	Yes Yes Yes	No (N/A) (No (N/A)			
Chlorin Any fre If Yes, I Potent Lift Sta Primare Oxyger	te Contact Tank seboard levels < 6 inches from the top of the containment? thas the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1	Yes Yes Yes Yes	No (N/A) (No (No (N/A) (No (N/A) (No (N/A) (No (N) (No (N/A) (No (N) (
Chlorin Any fre If Yes, Potent Lift Sta Primare Oxyger Oxyger	te Contact Tank seboard levels < 6 inches from the top of the containment? thas the Project Coordinator been notified? tial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1	Yes Yes Yes Yes Yes Yes	No (\$) (\$) (\$) (\$)			
Chlorin Any fre If Yes, Potent Lift Sta Primare Oxyger Oxyger Oxyger	te Contact Tank teboard levels < 6 inches from the top of the containment? thas the Project Coordinator been notified? tial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1 n Digester #2	Yes Yes Yes Yes Yes Yes Yes	No (\$) (\$) (\$) (\$) (\$) (\$)			
Chlorin Any fre If Yes, Potent Lift Sta Primare Oxyger Oxyger Oxyger Former	tion #1 y Clarifier #2 n Digester #1 n Digester #2 n Activated Sludge Tank	Yes Yes Yes Yes Yes Yes Yes Yes	No (2) (2) (2) (2) (2) (2) (2) (3)			

Date: 08/10/2015

If Yes, has the Project Coordinator been notified?	Yes	No	
Issues for Potential Corrective Action			
NONE			
			••••••••••

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Date: <u>08/10/2015</u>

Photo File Name = PXX	<u>(X-08102015 (P#-MMDDYYYY)</u>
NONE	
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Date: 08/10/2015

Site Monitoring Explanations
USOR
-NONE
MCC EAST
-NONE
MCC WEST
<u>-NONE</u>

Date: 08/13/2015

General Information

Day & Date: THURSDAY , 08/13/2015
Arrival Time: 07:00
Departure Time: 08:00
Type of Visit:
Site Inspection Personnel:
A.BROWER (RAMBOLL ENVIRON)
L.NGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit:
CLOUDY, NO WIND OBSERVED
Comments (if any):

Date: 08/13/2015

Weather Forecast and Notable Weather Elements:

General Fore	cast						
PARTLY	CLOUDY.	A 30%	CHANCE	OF St	10WERS	AND	
THUND	ER STORM	S LATE					

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		77/92	40%	0.131N	NA
MONDAY	О	76/91	40%	NA	NA
TUESDAY		77/93	30%	NA	NA
WEDNESDAY	О	78/93	30%	NA	НА
THURSDAY	X	80/98	30%	0.23 IN	5 MPH, W
FRIDAY	П	80 / 98	20%	0.00 IN	5-10MPH1S
SATURDAY	О	79/96	20°%	0.031N	5-10MPH1SE

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

	~ ~ ~	T	Outlook	
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TROPICAL CYCLONE FORMATION IS NOT EXPECTED PURING

THE NEXT 5 DAYS.

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/13/2015

USOR Property

Site an	d Perimeter Conditions	(circle one)	
X X X X	Any Locks Missing? Any Gates Damaged, Not Functional or Not Closed? Any Fence Damage Since Previous Site Visit? Any Evidence of Vandalism/Trespassing? Have Other Physical Conditions Changed?	Yes	<u>(6)6)6)6)</u>
Genera	al Observations		
A A A	Any Evidence of Staining? Any Change to Existing Stained Areas? Any Evidence of Off-Site Staining? Any Odor Observed Emanating from the Site?	Yes Yes Yes Yes (Explain all "Yes" answers belo	(S)(S)(S)
ASTs			
A A	Any Evidence of Vandalism/Trespassing? Any Weeping or Dripping Tanks or Valves? Have Other Physical Conditions Changed?	Yes Yes Yes (Explain all "Yes" answers belo	(0)(0) (0)(0)(0) (0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(
Drum/	Tote Storage Area		
Not Ap	plicable – Drums/Totes Removed as of January 2015		
Roll-Of	f Boxes		
Not Ap	plicable – Roll-Off Boxes Emptied as of April 2015		
Freebo	ard Measurements		
North 1	Fank Farm Secondary Containment	ft_ <u>l 2_</u> inche	es
South 1	Fank Farm Secondary Containment	ft <u>ftf</u> inch	es
Sump 3	34 (estimated)	ft_ <u>35_</u> inch	es
Sump 3	35	ft_ <u>35_</u> inch	es
Sump 3	36	ft_ <u>28_</u> inch	es
Bay 45		ft_ <u>l</u> inche	es
Bay 48		ft_19_inche	es

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>08/13/2015</u>			
Any freeboard levels < 6 inches from the top of the containment?	Yes	Yes		
If Yes, has the Project Coordinator been notified?	Yes	No	(1/4)	
Potential for Off-Site Migration				
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No)	
Bioreactor (not applicable – Bioreactor removed as of April 2014)				
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Issues for Potential Corrective Action				

Date: 08/13/2015

MCC West Property

Site an	d Perimeter Conditions		(c	ircle one	!)
N N N	Any Locks Missing? Any Gates Damaged, Not Functional or Not Close Any Fence Damage Since Previous Site Visit? Any Containment Structures Leaking? Have Other Physical Conditions Changed?	EXPLANATIONS	Yes Yes Yes Yes Xeplain all "Yes"	' answers t	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
X X	Any Evidence of Staining? Any Change to Existing Stained Areas? Any Evidence of Off-Site Staining? Any Odor Observed Emanating from the Site?	(E:	Yes Yes Yes Yes xplain all "Yes"	' answers t	(No) (No) (No) (No) (No) (No) (No) (No)
	tions #2 and #3 Any Evidence of Vandalism/Trespassing? Any Caps/Lids Damaged, Missing or Not Closed? Have Other Physical Conditions Changed?	(E:	Yes Yes Yes xplain all "Yes"	answers t	
Aeratio Primary	ial for Off-Site Migration on Basin (Final Clarifier) y Clarifier ate Trickling Filter		Yes Yes Yes		(N) (N) (N)
If Yes, I	has the Project Coordinator been notified?		Yes	No	(N/A)

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/13/2015
Issues for Potential Corrective Action	
NONE	
:	

MCC East Property

19100 Last 1 lober cy						
Site and Perimeter Conditions	(circl	e one)				
X Any Locks Missing?	Yes	(No)				
X Any Gates Damaged, Not Functional or Not Closed?	Yes	(<u>6</u>)				
Any Fence Damage Since Previous Site Visit?	Yes	(NO)				
Any Containment Structures Leaking?	Yes	™				
Have Other Physical Conditions Changed?	Yes	(10)				
	(Explain all "Yes" ans	wers below)				
General Observations						
💹 Any Evidence of Staining?	Yes	(No)				
Any Change to Existing Stained Areas?	Yes	(40)				
Any Evidence of Off-Site Staining?	Yes	(No)				
Any Odor Observed Emanating from the Site?	Yes	<u>(Mo</u>)				
	(Explain all "Yes" ans	wers below)				
Pump Control Room & Lift Station #1						
Any Evidence of Vandalism/Trespassing?	Yes	(No)				
Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)				
Have Other Physical Conditions Changed?	Yes	(No)				
	(Explain all "Yes" ans	wers below)				
Freeboard Measurements	•	·				
Freeboard Measurements Chlorine Contact Tank	ft_ <i>3</i> (inches				
	ft_ <i></i> ft	pana				
Chlorine Contact Tank	ft_ <i>3</i> (pana				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment?	ft_ <i>_S</i> (pana				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified?	ft_ <i>S</i> (pana				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration	ft_ <i>S</i> (Yes Yes No	O_inches				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1	ftftftftft	O_inches No N/A				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1 Primary Clarifier #1	Yes Yes Yes Yes	inches No				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1 Primary Clarifier #1 Primary Clarifier #2	Yes Yes Yes Yes Yes	inches No No No No No No No No				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1 Primary Clarifier #1 Primary Clarifier #2 Oxygen Digester #1	Yes Yes Yes Yes Yes Yes Yes Yes	D_inches No No No No No No No No No N				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1 Primary Clarifier #1 Primary Clarifier #2 Oxygen Digester #1 Oxygen Digester #2	Yes	D_inches No				
Chlorine Contact Tank Any freeboard levels < 6 inches from the top of the containment? If Yes, has the Project Coordinator been notified? Potential for Off-Site Migration Lift Station #1 Primary Clarifier #1 Primary Clarifier #2 Oxygen Digester #1 Oxygen Digester #2 Oxygen Activated Sludge Tank	Yes	D_inches NO				

Date: 08/13/2015

If Yes, has the Project Coordinator been notified?	Ye	es No	(N/A)
Issues for Potential Corrective Action			
NONE			<u> </u>

			000000000000000000000000000000000000000

Date:	08/13	12015
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Summary of Photographs	Taken
Photo File Name = <u>PXX</u>	(-08 132015 (P#-MMDDYYYY)
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NONE	
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Date:_	08/	13/	ac	115
		X		

Site Monitoring Explanations
USOR
-NONE
MC FAST
- NONE
MC WEST
-TRICKLE FILTER VALUE + DESERVED OVERFLOWING. NO
SHEEN OBSERVED.
- HEADWORKS PIPE OBSERVED DRIPPING. NO SHEEN
OBSER-VED.

Date: 08/17/2015

General Information

Day & Date: MONDAY , 08/17/2015
Arrival Time: 07:30
Departure Time: 08:20
Type of Visit:
Site Inspection Personnel:
J. ROSS (RAMBOLL ENVIRON)
L. MGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit:
CLEAR SKIES, NO WIND OBSERVED
Comments (if any):

Date: 08/17/2015

Weather Forecast and Notable Weather Elements:

PARTLY	CLOUDY	UNTIL	AFTER	NOON	THEN	<u>ee con</u>	NN4	MOSTLY	
								<u> VDEESTOR</u>	'M's
LATE									A Mark

7-Day Forecast at a Glance

General Forecast

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		79/94	20%	NA	NA
MONDAY	タ	78/94	60%	0.17 IN	5-10 MPH (SE
TUESDAY	О	78/94	40%	0.24IN	10-ISMPH, S
WEDNESDAY	О	80/91	60%	0.42IN	10-15MPH, S
THURSDAY	О	79/90	60%	0.6010	NA
FRIDAY		78/92	50%	0.361N	NA
SATURDAY		79/94	30%	0.02IN	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

AREA OF LOW PRESSURE ASSOCIATED - LOCATED SEVERAL HUNDRED MILES SOUTHWEST OF THE CAPE VERDE ISLANDS MOVING WESTWARD NEAR IS MPH AND HAS 70% CHANCE OF FORMATION OVER THE NEXT 5 DAYS.

Date: 08/17/2015 **USOR-MCC Bi-Weekly Site Monitoring Checklist USOR Property Site and Perimeter Conditions** (circle one) Any Locks Missing? Yes Any Gates Damaged, Not Functional or Not Closed? Yes Any Fence Damage Since Previous Site Visit? Yes Any Evidence of Vandalism/Trespassing? Yes Have Other Physical Conditions Changed? Yes (Explain all "Yes" answers below) **General Observations** Any Evidence of Staining? Yes Any Change to Existing Stained Areas? Yes Any Evidence of Off-Site Staining? Yes Any Odor Observed Emanating from the Site? Yes (Explain all "Yes" answers below) **ASTs** Any Evidence of Vandalism/Trespassing? Yes Any Weeping or Dripping Tanks or Valves? Yes Have Other Physical Conditions Changed? Yes (Explain all "Yes" answers below) **Drum/Tote Storage Area** Not Applicable - Drums/Totes Removed as of January 2015 **Roll-Off Boxes** Not Applicable – Roll-Off Boxes Emptied as of April 2015 **Freeboard Measurements** ____ft_*l3_*inches North Tank Farm Secondary Containment ____ft_<u>11.5</u>inches South Tank Farm Secondary Containment Sump 34 (estimated) ft 36 inches Sump 35 ____ft_28_inches Sump 36 ft 14 inches Bay 45

Bay 48

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/17/2015			
Any freeboard levels < 6 inches from the top of the containment?	Yes		No	
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A	
Potential for Off-Site Migration				
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No	
Bioreactor (not applicable – Bioreactor removed as of April 2014)				
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A	
Issues for Potential Corrective Action				

USOR-MCC Bi-Weekly Site Monitoring Checklist

If Yes, has the Project Coordinator been notified?

Date: 08/17/2015

MCC West Property

Site ar	d Perimeter Conditions	(circle o	(circle one)	
Ŋ	Any Locks Missing?	Yes	(NO)	
Ø	Any Gates Damaged, Not Functional or Not Closed ?	Yes	(No)	
	Any Fence Damage Since Previous Site Visit?	Yes	(No)	
Ø	Any Containment Structures Leaking?	Yes	(No)	
ď	Have Other Physical Conditions Changed?	Yes	(NO)	
		(Explain all "Yes" answe	rs below)	
Genera	al Observations			
图	Any Evidence of Staining?	Yes	(No)	
Q	Any Change to Existing Stained Areas?	Yes	(No)	
	Any Evidence of Off-Site Staining?	Yes	(100)	
Ø	Any Odor Observed Emanating from the Site?	Yes	(No)	
		(Explain all "Yes" answe	rs below)	
Lift Sta	tions #2 and #3			
87	Any Evidence of Vandalism/Trespassing?	Yes	(No)	
Ø	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)	
×	Have Other Physical Conditions Changed?	Yes	(NO)	
		(Explain all "Yes" answe	rs below)	
Potent	ial for Off-Site Migration			
Aeratio	on Basin (Final Clarifier)	Yes	(No)	
Primar	y Clarifier	Yes	(NO)	
High R	ate Trickling Filter	Yes	(No)	
			f	

Yes

USOR-MCC BI-Weekly Site Monitoring Checklist	Date: 08/17/2015
Issues for Potential Corrective Action	
NONE	

MCC East Property

Site an	d Perimeter Conditions	(circle	one)
Ø	Any Locks Missing?	Yes	(NO)
×	Any Gates Damaged, Not Functional or Not Closed?	Yes	(NO)
Ø	Any Fence Damage Since Previous Site Visit?	Yes	(NO)
123	Any Containment Structures Leaking?	Yes	(No)
这	Have Other Physical Conditions Changed?	Yes	(vo)
		(Explain all "Yes" ansv	vers below)
Genera	al Observations		
	Any Evidence of Staining?	Yes	(i)
×	Any Change to Existing Stained Areas?	Yes	(No)
四	Any Evidence of Off-Site Staining?	Yes	(NO)
凶	Any Odor Observed Emanating from the Site?	Yes	(oui
		(Explain all "Yes" ansv	vers below)
Pump (Control Room & Lift Station #1		
Z	Any Evidence of Vandalism/Trespassing?	Yes	(6N)
· 图	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	$\langle a \rangle$
ষ্	Have Other Physical Conditions Changed?	Yes	(NO)
		(Explain all "Yes" ansv	vers below)
Freebo	ard Measurements		
Chlorin	e Contact Tank	ft_ <u>\$</u>	<u>inches</u>
	eeboard levels < 6 inches from the top of the containment?	ft_ <i>え</i>	inches
Any fre		ft_ <u>3</u> c Yes Yes No	inches No
Any fre	eeboard levels < 6 inches from the top of the containment?		NO NO
Any fre	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration		No.
Any free If Yes, Potent Lift Sta	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes No	(N)/A)
Any free If Yes, Potent Lift Sta	eeboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration tion #1	Yes No Yes	(No) (N/A)
Any free If Yes, Potent Lift Sta Primare	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1	Yes No Yes Yes	(No) (N/A) (N) (20) (20)
Any free If Yes, Potent Lift Sta Primar Primar Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1	Yes No Yes Yes Yes	
Any free If Yes, Potent Lift Sta Primar Primar Oxyger Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1	Yes No Yes Yes Yes Yes	
Any free If Yes, Potent Lift Sta Primar Primar Oxyger Oxyger Oxyger	has the Project Coordinator been notified? ial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1 n Digester #2	Yes Yes Yes Yes Yes Yes	
Any free If Yes, Potent Lift Star Primary Oxyger Oxyger Oxyger Former	ceboard levels < 6 inches from the top of the containment? chas the Project Coordinator been notified? cial for Off-Site Migration tion #1 y Clarifier #1 y Clarifier #2 n Digester #1 n Digester #2 n Activated Sludge Tank	Yes Yes Yes Yes Yes Yes Yes Yes	

If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Issues for Potential Corrective Action			
NONE	***************************************		
		·····	
		***************************************	,
	***************************************		***************************************
	***************************************	***************************************	
			
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Date: 08/17/2015

Summary of Photographs	
Photo File Name = PXX	X-D8172015 (P#-MMDDYYYY)
NONE	

Explanations Page 1

General Information

Day & Date: THURSDAY, 08/20/2015
Arrival Time: 07:00
Departure Time: 09:00
Type of Visit:RoutineUnscheduled
Site Inspection Personnel:
J. PENNINGTON (RAMBOLL ENVIRON)
L. NGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit: OVERCAST, RAYN, WIND BLOWING FROM THE NORTH
Comments (if any): INTERGULF REMOVED APPROXIMATELY 5,100 GALLONS FROM SUMP 36 FOR OFF-SITE DISPOSAL AT INTERGULF/J PASADENA, TEXAS FACILITY:

Date: 08/20/2015

Weather Forecast and Notable Weather Elements:

General Forecast					
SHOWERS	AND	THUNDER	25(D2M2		
		*:			

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		79/94	20%	0.0010	NA
MONDAY	П	78/95	20%	0.001N	NA
TUESDAY	П	78/95	30%	0.0011	NA
WEDNESDAY		77/95	20%	NA	NA
THURSDAY	Ø	79/87	90%	0.65 IN	G-10MPHIS
FRIDAY	ū	79/92	30°/s	0.121N	5-10MPH,5
SATURDAY		79/93	30%	0.0611	5-10 MPH 15

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL STORM DANNY IS LOCATED OVERTHE CENTRAL TROPICAL ATLANTIC ABOUT A THOUSAND MILES EAST OF THE LESSER ANTILLES.

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/20/2015

USOR Property

Site and Perimeter Conditions		(circle or	(circle one)	
2 2 2 2	Any Fence Damage Since Previous Site Visit? Any Evidence of Vandalism/Trespassing?	Yes Yes Yes Yes Yes (Explain all "Yes" answer	s below)	
Gene	ral Observations			
E E K	Any Change to Existing Stained Areas? Any Evidence of Off-Site Staining?	Yes Yes Yes Yes (Explain all "Yes" answers	(NO) (NO) (NO) (NO) (NO) (NO) (NO) (NO)	
ASTs				
<u> </u>	, ,	Yes Yes Yes (Explain all "Yes" answers	S below	
Drum	/Tote Storage Area			
Not A	pplicable – Drums/Totes Removed as of January 2015			
Roll-C	Off Boxes			
Not A	pplicable – Roll-Off Boxes Emptied as of April 2015			
<u>Freeb</u>	oard Measurements			
North	Tank Farm Secondary Containment	ft_ <u>12</u> _i	inches	
South	Tank Farm Secondary Containment	ft_ <u>l</u> l_i	nches	
Sump	34 (estimated)	ft_35_i	nches	
Sump	35	ft_35_i	nches	
Sump	36	ft_ <u>60</u> _i	nches	
Bay 45	5	ftJ <u>H</u> j	nches	
Bay 48	3	ft_19_i	nches	

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>08/20/2015</u>		
Any freeboard levels < 6 inches from the top of the containment?	Yes		(No)
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Potential for Off-Site Migration			
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No)
Bioreactor (not applicable – Bioreactor removed as of April 2014)			
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Issues for Potential Corrective Action			
NONE			
		***************************************	•••••••••••••••••••••••••••••••••••••••
		***********************	***************************************

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/20/205

MCC West Property

Site and Perimeter Conditions	(circle one)	
Any Locks Missing?	Yes	(No)
Any Gates Damaged, Not Functional or Not Closed ?	Yes	(NO)
Any Fence Damage Since Previous Site Visit?	Yes	(NO)
Any Containment Structures Leaking?	Yes	NO
Have Other Physical Conditions Changed?	Yes	NO
	(Explain all "Yes" ans	wers below)
General Observations		
Any Evidence of Staining?	Yes	(NO)
Any Change to Existing Stained Areas?	Yes	(NO
Any Evidence of Off-Site Staining?	Yes	(No)
Any Odor Observed Emanating from the Site?	Yes	(NO)
	(Explain all "Yes" ans	wers below)
Lift Stations #2 and #3		
Any Evidence of Vandalism/Trespassing?	Yes	(No)
Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(NO)
Have Other Physical Conditions Changed?	Yes	(MO)
(Explain all "Yes" answer		wers below)
Potential for Off-Site Migration		
Aeration Basin (Final Clarifier)	Yes	(No)
Primary Clarifier	Yes	(No)
High Rate Trickling Filter	Yes	(NO)
If Yes, has the Project Coordinator been notified?	Yes No	(N/A)

USOR-MCC Bi-Weekly Site Monitoring Checklist

Issues for Potential Corrective Action

NONE

MCC East Property

Site an	d Perimeter Conditions	(circle one)				
И	Any Locks Missing?	Yes	(NO			
×	Any Gates Damaged, Not Functional or Not Closed?	Yes	(MO)			
	Any Fence Damage Since Previous Site Visit?	Yes	(W)			
X	Any Containment Structures Leaking?	Yes	(M)			
×	Have Other Physical Conditions Changed?	Yes	(NO)			
		(Explain all "Yes" an	swers below)			
Genera	l Observations					
	Any Evidence of Staining?	Yes	(No)			
	Any Change to Existing Stained Areas?	Yes	<u>@</u>			
図	Any Evidence of Off-Site Staining?	Yes	(N)			
Ø	Any Odor Observed Emanating from the Site?	Yes	(M)			
		(Explain all "Yes" an	swers below)			
Pump (Control Room & Lift Station #1					
×	Any Evidence of Vandalism/Trespassing?	Yes	∕ Ñō\			
M	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	ത്ത്			
Ø	Have Other Physical Conditions Changed?	Yes	(No)			
·	,	(Explain all "Yes" an	swers below)			
Freeboard Measurements						
rreepo	ard Measurements					
	e Contact Tank	ft_2	<u>9</u> inches			
Chlorin		ft_ <i>2</i> Yes	9_inches			
Chlorin Any fre	e Contact Tank	ft_ <i>3</i> Yes No	(No)			
Chlorin Any fre If Yes, I	e Contact Tank eboard levels < 6 inches from the top of the containment?		(No)			
Chlorin Any fre If Yes, I	e Contact Tank eboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration		(No)			
Chlorin Any fre If Yes, I Potent	e Contact Tank eboard levels < 6 inches from the top of the containment? has the Project Coordinator been notified? ial for Off-Site Migration	Yes No	NO N/A			
Chlorin Any fre If Yes, I Potenti Lift Stat	e Contact Tank eboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? lal for Off-Site Migration tion #1	Yes No Yes				
Chlorin Any fre If Yes, I Potenti Lift Stat Primary	e Contact Tank eboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? ial for Off-Site Migration tion #1 / Clarifier #1	Yes No Yes Yes	(NO) (N/A) (NO) (NO)			
Chlorin Any fre If Yes, I Potenti Lift Stat Primary Primary Oxygen	e Contact Tank eboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? ial for Off-Site Migration tion #1 / Clarifier #1	Yes No Yes Yes Yes	2 2 2 2 2 2 2 2			
Chlorin Any fre If Yes, I Potenti Lift Stat Primary Oxygen Oxygen	e Contact Tank eboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? ial for Off-Site Migration tion #1 / Clarifier #1 / Clarifier #2 Digester #1	Yes Yes Yes Yes Yes				
Chlorin Any fre If Yes, I Potenti Lift Stat Primary Oxygen Oxygen Oxygen	e Contact Tank eboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? ial for Off-Site Migration tion #1 / Clarifier #1 / Clarifier #2 Digester #1 Digester #2	Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2			
Chlorin Any fre If Yes, I Potenti Lift Stat Primary Oxygen Oxygen Oxygen Former	e Contact Tank reboard levels < 6 inches from the top of the containment? nas the Project Coordinator been notified? ial for Off-Site Migration tion #1 / Clarifier #1 / Clarifier #2 Digester #1 Digester #2 Activated Sludge Tank	Yes Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2			

Date: 08/20/2015

If Yes, has the Project Coordinator been notified?	Yes	No	(N/A
Issues for Potential Corrective Action			

Date: <u>08/20/2015</u>

Summary of Photographs Taken				
Photo File Name = <u>PXX</u>	<u>(X - 08202015 (</u> p#-mmddyyyy)			
NONE				

·				
:				

Date: 08/20/2015

Site Monitoring Explanations
USOR
-NONE
MCC FAST
-NONE
MCC WEST
-NONE

Date: 08/24 205

General Information

Weather Forecast and Notable Weather Elements:

General Forecast						
PARTLY	CLOUDY	WITH A	20 % CHANCE OF SHOWERS AND			
THUNDER	² STORMS	(N THE	AFTERNOON.			

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		74190	20%	NA	NA
MONDAY	X	78/97	20%	0.02 IN	5 MPH, NW
TUESDAY		78/96	30%	0.131N	SMPH, NE
WEDNESDAY		75/94	20%	0.00 IN	5-10MPH (E
THURSDAY	О	73/92	10%	0.00IN	NA
FRIDAY	П	72/92	0%	0.00 IN	NA
SATURDAY		74/91	10%	0.00 IN	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

A LOW PRESSURE SYSTEM LOCATED ABOUT 1250 MILES EAST OF THE
SOUTHERN LESSER ANTILLES MOVING WESTWARD AT 20 MPH AND HAS
A 90% CHANCE OF TROPILAL STORM FORMATION IN THE NEXT 5 DAYS.
TROPILAL DEPRESSION DANNY IS LOCATED NEAR THE LEEWARD ISLANDS

Date: 08/24 205 **USOR-MCC Bi-Weekly Site Monitoring Checklist USOR Property Site and Perimeter Conditions** (circle one) Any Locks Missing? Yes Any Gates Damaged, Not Functional or Not Closed? Yes Any Fence Damage Since Previous Site Visit? Yes Any Evidence of Vandalism/Trespassing? Yes Have Other Physical Conditions Changed? Yes (Explain all "Yes" answers below) **General Observations** Any Evidence of Staining? Yes Any Change to Existing Stained Areas? Yes Any Evidence of Off-Site Staining? Yes Any Odor Observed Emanating from the Site? Yes (Explain all "Yes" answers below) **ASTs** Any Evidence of Vandalism/Trespassing? Yes Any Weeping or Dripping Tanks or Valves? Yes Have Other Physical Conditions Changed? Yes (Explain all "Yes" answers below) **Drum/Tote Storage Area** Not Applicable - Drums/Totes Removed as of January 2015 **Roll-Off Boxes** Not Applicable - Roll-Off Boxes Emptied as of April 2015 **Freeboard Measurements** ft ID inches North Tank Farm Secondary Containment ft_9_inches **South Tank Farm Secondary Containment** _ft_<u>36_</u>inches Sump 34 (estimated) ft_36_inches Sump 35

Sump 36

Bay 45

Bay 48

_ft__<u>43_</u>inches

ft 13 inches

ft 17 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/24/2015			
Any freeboard levels < 6 inches from the top of the containment?	eboard levels < 6 inches from the top of the containment? Yes		(No)	
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Potential for Off-Site Migration				
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No)	
Bioreactor (not applicable – Bioreactor removed as of April 2014)				
If Yes, has the Project Coordinator been notified?	Yes	No		
Issues for Potential Corrective Action				
NOINE				

<u></u>				

If Yes, has the Project Coordinator been notified?

MCC West Property

Site an	d Perimeter Conditions	(circle	(circle one)		
Ø	Any Locks Missing?	Yes	(Mo)		
Ø	Any Gates Damaged, Not Functional or Not Closed?	Yes	<u>(10</u>)		
Ø	Any Fence Damage Since Previous Site Visit?	Yes	(M)		
Ø	Any Containment Structures Leaking?	Yes	(III)		
囟	Have Other Physical Conditions Changed?	Yes	(M)		
		(Explain all "Yes" answe	ers below)		
Genera	al Observations				
ÇA	Any Evidence of Staining?	Yes	(N)		
Ø	Any Change to Existing Stained Areas?	Yes	@		
K	Any Evidence of Off-Site Staining?	Yes	(D)		
Ø	Any Odor Observed Emanating from the Site?	Yes	(W)		
		(Explain all "Yes" answe	ers below)		
Lift Sta	tions #2 and #3				
Ŋ.	Any Evidence of Vandalism/Trespassing?	Yes	(No)		
(30)	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(NO)		
Ø	Have Other Physical Conditions Changed?	Yes	(NO)		
		(Explain all "Yes" answe	ers below)		
Potential for Off-Site Migration					
Aeratio	on Basin (Final Clarifier)	Yes	(No)		
Primar	y Clarifier	Yes	(NO)		
High R	ate Trickling Filter	Yes	(No)		

Yes

USOR-MCC Bi-Weekly Site Monitoring Checklist Issues for Potential Corrective Action NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist MCC East Property Site and Perimeter Conditions Date: 08/24/2015 (circle one)

Ø	Any Locks Missing?	Yes	(Ñ)
Ø	Any Gates Damaged, Not Functional or Not Closed?	Yes	<u>@</u>
贝	Any Fence Damage Since Previous Site Visit?	Yes	<u>(10</u>
ÇS.	Any Containment Structures Leaking?	Yes	(OD)
Ø	Have Other Physical Conditions Changed?	Yes	1
		(Explain all "Yes" answers b	elow)

General Observations

Ŋ,	Any Evidence of Staining?	Yes	(N)
X	Any Change to Existing Stained Areas?	Yes	Ø
βQ.	Any Evidence of Off-Site Staining?	Yes	(QQ)
Ø	Any Odor Observed Emanating from the Site?	Yes	(ma)
		(Explain all "Yes" answers below)	

Pump Control Room & Lift Station #1

烙	Any Evidence of Vandalism/Trespassing?	Yes	(NO)	
J2	Any Caps/Lids Damaged, Missing or Not Closed?	Yes		
Ø	Have Other Physical Conditions Changed?	Yes		
		(Explain all "Yes" answers below)		

Freehoard Measurements

Freeboard Measurements			
Chlorine Contact Tank		ft <i>28</i> _inches	
Any freeboard levels < 6 inches from the top of the containment?			(No)
If Yes, has the Project Coordinator been notified?	Yes	No	(AZA)
Potential for Off-Site Migration			
Lift Station #1	Yes		(N)
Primary Clarifier #1	Yes		(M)
Primary Clarifier #2	Yes		(No)
Oxygen Digester #1	Yes		(M)
Oxygen Digester #2	Yes		(No)
Oxygen Activated Sludge Tank	Yes		(NO)
Former Sand Filter	Yes		(NO)
Aerobic Digester	Yes		(ND)
Gravity Thickener	Yes		(No)

If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)
Issues for Potential Corrective Action			
NONE			

Date:	08	/24	12015	

Summary of Photographs	
Photo File Name = PXX	X-08242015 (P#-MMDDYYYY)
NONE	
······································	

	Photo Page

Date: 08/24/2015

Site Monitoring Explan	itions	
<u>USOP</u>		
-NONE		
MCC EAST		
-NONE		
MLC WEST		
-N0M6		
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# **General Information**

Day & Date: THURSDAY, 08/27/2015
Arrival Time: 07:00
Departure Time: <u>0名: 25</u>
Type of Visit: Routine Unscheduled
Site Inspection Personnel:
J. PENNINGTON (CAMBOLL ENVIRON)
L. NGUYEN (RAMBOLL ENVIRON)
Weather Conditions During Site Visit:
PARTLY CLOUDY
Comments (if any):
INTERGULF REMOVED APPROXIMATELY 5, 145 GALLON
FROM NTF AND 5,000 GALLONS FROM STF
FOR OFF-SITE DISPOSAL AT INTERGULFIS
PASADENA TEXAS FACILITY.

Date: 08/27/2015

#### **Weather Forecast and Notable Weather Elements:**

General Forecast SUNY	

### 7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY		74/92	20%	0.00 11	NA
MONDAY		75/92	30%	AU	NA
TUESDAY		75/90	40%	AU	NA
WEDNESDAY	П	76/91	40%	NA	NA
THURSDAY	Ä	70/94	0%	0.00 11	GMPH,MV
FRIDAY	U	70/93	0%	0.00 17	6MPH/M
SATURDAY		74/92	0%	0.0011	5-10 MPH 1 S

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

# **Long Term Outlook**

TROPICAL STORM ERICA IS LOCATED NEAR THE NORTHERN LEEWARD ISLANDS

# **USOR-MCC Bi-Weekly Site Monitoring Checklist**

# Date: 08/27/2015

Sump 36

Bay 45

Bay 48

<u>USOK</u>	Property		
Site a	nd Perimeter Conditions	(circle o	one)
M	Any Locks Missing?	Yes	(No)
DA .	•	Yes	7io
200	Any Fence Damage Since Previous Site Visit?	Yes	(NO)
(28	Any Evidence of Vandalism/Trespassing?	Yes	(No)
X	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answe	ers below)
Gener	al Observations		
Ŋ	Any Evidence of Staining?	Yes	(Ño)
Ş	Any Change to Existing Stained Areas?	Yes	(No)
Į <b>S</b> I	Any Evidence of Off-Site Staining?	Yes	(No)
Ø	Any Odor Observed Emanating from the Site?	Yes	(No)
		(Explain all "Yes" answe	ers below)
ASTs			
ĸ	Any Evidence of Vandalism/Trespassing?	Yes	(No)
Ø	Any Weeping or Dripping Tanks or Valves?	Yes	(No)
Ø	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answe	ers below)
Drum	Tote Storage Area		
Not A	oplicable – Drums/Totes Removed as of January 2015		
Roll-O	ff Boxes		
Not A	oplicable – Roll-Off Boxes Emptied as of April 2015		
Freebo	pard Measurements		
North	Tank Farm Secondary Containment	ft_ <u> O</u>	inches
South	Tank Farm Secondary Containment	f <u>10</u>	_inches
Sump	34 (estimated)	ft_ <u>3</u> 5_	_inches
Sump	35	ft_35	_inches

____ft_<u>35_</u>inches

ft_13_inches

____ft____inches

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: 08/27/2-01		016	
Any freeboard levels < 6 inches from the top of the containment?	Yes		(No)	
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Potential for Off-Site Migration				
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(No)	
Bioreactor (not applicable – Bioreactor removed as of April 2014)				
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)	
Issues for Potential Corrective Action				
			<del>.</del>	
		<del>0</del> 00000000000000000000000000000000000		
		***************************************		

# USOR-MCC Bi-Weekly Site Monitoring Checklist

If Yes, has the Project Coordinator been notified?

Date: 08/27/2015

# **MCC West Property**

Site and Perimeter Conditions		(circle	one)
Ø	Any Locks Missing?	Yes	(No)
図	Any Gates Damaged, Not Functional or Not Closed?	Yes	গৈৰ্
(XI	Any Fence Damage Since Previous Site Visit?	Yes	(No)
Q	Any Containment Structures Leaking?	Yes	(No)
X	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answe	ers below)
Genera	al Observations		
Ø	Any Evidence of Staining?	Yes	(N ₀ )
Ø	Any Change to Existing Stained Areas?	Yes	(No)
A	Any Evidence of Off-Site Staining?	Yes	(No)
Ø	Any Odor Observed Emanating from the Site?	Yes	$(N_0)$
		(Explain all "Yes" answe	ers below)
Lift Sta	tions #2 and #3		
网	Any Evidence of Vandalism/Trespassing?	Yes	(No)
Ø	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
M	Have Other Physical Conditions Changed?	Yes	(No)
		(Explain all "Yes" answe	ers below)
Potent	ial for Off-Site Migration		
Aeratio	on Basin (Final Clarifier)	Yes	(No)
Primary Clarifier		Yes	(No)
High R	ate Trickling Filter	Yes	(No)

Yes

USOR-MCC Bi-Weekly Site Monitoring Checklist

Issues for Potential Corrective Action

NONE

# **MCC East Property**

Site an	d Perimeter Conditions	(circ	cle one)
Ŋ	Any Locks Missing?	Yes	(No)
Ŕ	Any Gates Damaged, Not Functional or Not Closed?	Yes	(NO)
网	Any Fence Damage Since Previous Site Visit?	Yes	(No)
×	Any Containment Structures Leaking?	Yes	(III)
R	Have Other Physical Conditions Changed?	Yes	(NO)
		(Explain all "Yes" ar	nswers below)
Genera	Il Observations		
Q	Any Evidence of Staining?	Yes	<b>(</b>
<b>(8</b> )	Any Change to Existing Stained Areas?	Yes	(No)
风	Any Evidence of Off-Site Staining?	Yes	<u>~~~</u>
8	Any Odor Observed Emanating from the Site?	Yes	(NO)
		(Explain all "Yes" ar	nswers below)
Pump (	Control Room & Lift Station #1		
以	Any Evidence of Vandalism/Trespassing?	Yes	(6N)
内	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(NO)
D	Have Other Physical Conditions Changed?	Yes	<u>ത</u>
		(Explain all "Yes" ar	nswers below)
Freebo	ard Measurements		
Chlorin	e Contact Tank	ft_ <u>c</u>	<u>26</u> inches
Any fre	eboard levels < 6 inches from the top of the containment?	Yes	(No)
If Yes,			
	nas the Project Coordinator been notified?	Yes N	• (N/A)
<u>Potent</u>	has the Project Coordinator been notified?	Yes N	o (N/A)
<u>Potent</u> Lift Sta	ial for Off-Site Migration	<b>Yes N</b> Yes	0 N/A NO
Lift Sta	ial for Off-Site Migration		
Lift Sta	tion #1	Yes	(No)
Lift Sta Primar	tion #1  / Clarifier #1	Yes Yes	(NO)
Lift Sta Primar Primar Oxyger	ial for Off-Site Migration tion #1 / Clarifier #1 / Clarifier #2	Yes Yes Yes	
Primar Primar Oxyger	tion #1 / Clarifier #1 / Clarifier #2 Digester #1	Yes Yes Yes Yes	
Primari Primari Oxyger Oxyger Oxyger	ial for Off-Site Migration  tion #1  / Clarifier #1  / Clarifier #2  Digester #1  Digester #2	Yes Yes Yes Yes	
Primari Oxyger Oxyger Oxyger Former	tion #1 / Clarifier #1 / Clarifier #2 Digester #1 Digester #2 Activated Sludge Tank	Yes Yes Yes Yes Yes	) 2 2 2 2 2 2 2 2 2 2 3 2 3 3 4 3 3 3 3 3

Date: 08/27/2015

If Yes, has the Project Coordinator been notified?	Yes	No (N/A
Issues for Potential Corrective Action		
NONE		

Date:	08	/27 i	12015	

ummary of Photographs Taken								
Photo File Name = <u>PXX</u>	X-0827	12015 _{(P#-N}	имddүүүү)					
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Explanations Page ____

# Date: 08/31/A015

# **General Information**

Day & Date: MONDAY, 08/31/2015
Arrival Time: 07:00
Departure Time: 08:35
Type of Visit:Unscheduled
Site Inspection Personnel:
A. BROWER (RAMBOLL ENVIRON)
L. NGUYEN ( RAMBOLL ENVIRON )
Weather Conditions During Site Visit:  PARTLY CLOUDY, WIND BLOWING FROM THE SOUTH
Comments (if any):  INTERGULE REMOVED APPROXIMATELY 5,000 GALLONS
FROM NTF AND 5,092 GALLONS FROM MCC EAST
UFT STATION #1 FOR OFF-SITE DISPOSAL AT INTERGULPIS
PASADENA, TEXAS FACILITY.

Date: 08/31/2015

#### **Weather Forecast and Notable Weather Elements:**

PARTLY	CLOUDY.	A 20		IANCE O				
THUNCE	PSTOPNS	IN THE	MOEN	IING, AN	PA	30 %	CHANCE	11

# 7-Day Forecast at a Glance

THE AFTERNOON

**General Forecast** 

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	O	76/91	20%	NA	NA
MONDAY	X	76/90	30 %	0.00 IN	5-10MPH,SE
TUESDAY		76/87	50%	0.27IN	5-10MPH,SE
WEDNESDAY		75/89	4-0%	0.1311	5-10MPH,SE
THURSDAY		75/90	40%	0.051N	NA
FRIDAY	П	76/90	30%	NA	NA
SATURDAY		76/91	30%	NA	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

# **Long Term Outlook**

HURRICANE FRED LOCATED NEAR THE EASTERNMOST CAPE VERDE ISLANDS MOVING 12MPH NORTHWEST.

# **USOR-MCC Bi-Weekly Site Monitoring Checklist**

Date: <u>08/31/2015</u>

# **USOR Property**

Site and	d Perimeter Conditions	(circle	one)
Ø	Any Locks Missing? Any Gates Damaged, Not Functional or Not Closed? Any Fence Damage Since Previous Site Visit? Any Evidence of Vandalism/Trespassing? Have Other Physical Conditions Changed?	Yes Yes Yes Yes Yes (Explain all "Yes" answ	(No) (No) (No) (No) (No) (No) (No) (No)
Genera	l Observations		
<b>对</b>	Any Evidence of Staining? Any Change to Existing Stained Areas? Any Evidence of Off-Site Staining? Any Odor Observed Emanating from the Site?	Yes Yes Yes Yes (Explain all "Yes" answ	No No No vers below)
ASTs			
	Any Evidence of Vandalism/Trespassing? Any Weeping or Dripping Tanks or Valves? Have Other Physical Conditions Changed?	Yes Yes Yes (Explain all "Yes" answ	No (No (No ers below)
Drum/1	Tote Storage Area		
Not App	olicable – Drums/Totes Removed as of January 2015		
Roll-Off	f Boxes		
Not App	olicable – Roll-Off Boxes Emptied as of April 2015		
Freeboa	ard Measurements		
North T	ank Farm Secondary Containment	ft_ <u>13</u>	_inches
South T	ank Farm Secondary Containment	ft_ <u>9</u>	inches
Sump 3	4 (estimated)	ft_33	<u>'</u> inches
Sump 3	5	ft_33	<u>inches</u>
Sump 3	6	t <u>34</u>	_inches
Bay 45		ft_13	inches
Bay 48		ft_ <u>\</u>	inches

USOR-MCC Bi-Weekly Site Monitoring Checklist	Date: <u>()8/</u>	31/s	2015			
Any freeboard levels < 6 inches from the top of the containment?	Yes	(No)				
If Yes, has the Project Coordinator been notified?	Yes	Yes No				
Potential for Off-Site Migration						
Containment Pond Freeboard less than 2 feet (estimated)	Yes		(NO)			
Bioreactor (not applicable – Bioreactor removed as of April 2014)						
If Yes, has the Project Coordinator been notified?	Yes	No	(N/A)			
Issues for Potential Corrective Action						
		•••••••••••••••••••••••••••••••••••••••				
			<u>.</u>			

If Yes, has the Project Coordinator been notified?

# Date: 08/31/2015

# MCC West Property

Site a	nd Perimeter Conditions	(circle o	ne)
ÇX	Any Locks Missing?	Yes	(No)
K	Any Gates Damaged, Not Functional or Not Closed?	Yes	(11)
S	Any Fence Damage Since Previous Site Visit?	Yes	(V)
C)A	Any Containment Structures Leaking?	Yes	(iii)
Ø	FE EVENTALISMS	\ (Yes)	No
		(Explain all "Yes" answer	s below)
Gener	al Observations		
X	Any Evidence of Staining?	Yes	(No)
<b>B</b>	Any Change to Existing Stained Areas?	Yes	(No)
X	Any Evidence of Off-Site Staining?	Yes	<u>@</u>
œ	Any Odor Observed Emanating from the Site?	Yes	(NO)
		(Explain all "Yes" answer	s below)
Lift St	ations #2 and #3		
ζ <b>X</b> I	Any Evidence of Vandalism/Trespassing?	Yes	(No)
X	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(Mg
N	Have Other Physical Conditions Changed?	Yes	300
		(Explain all "Yes" answer	s below)
<u>Poten</u>	tial for Off-Site Migration		
Aerati	on Basin (Final Clarifier)	Yes	(No)
Prima	ry Clarifier	Yes	<u>(No)</u>
High R	ate Trickling Filter	Yes	(N)

Yes

No

USOR-MCC Bi-Weekly Site Monitoring Checklist

Issues for Potential Corrective Action

NONE

# **USOR-MCC Bi-Weekly Site Monitoring Checklist**

Date: <u>08/31/2015</u>

# **MCC East Property**

Site and Perimeter Conditions	(circle	e one)
Any Locks Missing?	Yes	(No)
Any Gates Damaged, Not Functional or Not Closed?	Yes	কৈ
Any Fence Damage Since Previous Site Visit?	Yes	(No)
Any Containment Structures Leaking?	Yes	( <u>(v</u> )
Have Other Physical Conditions Changed?	Yes	(No)
	(Explain all "Yes" ans	wers below)
General Observations		
Any Evidence of Staining?	Yes	(Mo)
Any Change to Existing Stained Areas?	Yes	(ON)
Any Evidence of Off-Site Staining?	Yes	( <u>No</u> )
Any Odor Observed Emanating from the Site?	Yes	S
	(Explain all "Yes" ans	wers below)
Pump Control Room & Lift Station #1		
M Any Evidence of Vandalism/Trespassing?	Yes	(No)
Any Caps/Lids Damaged, Missing or Not Closed?	Yes	Mo
Have Other Physical Conditions Changed?	Yes	GIV
	(Explain all "Yes" ans	wers below)
	` '	
Freeboard Measurements		
Freeboard Measurements Chlorine Contact Tank		inches
Chlorine Contact Tank	ft_2	_inches
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?	ft_ <u>⊋(</u> Yes	_inches
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?	ft_ <u>⊋(</u> Yes	_inches
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration	Yes No	_inches  (No)  (N/A)
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1	Yes No	_inches  (No)  (N/A)
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1  Primary Clarifier #1	Yes Yes Yes Yes	inches  No  No  No  No
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1  Primary Clarifier #1  Primary Clarifier #2	Yes Yes Yes Yes Yes Yes	_inches  No  No  No  No  No  No  No  No  No  N
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1  Primary Clarifier #1  Primary Clarifier #2  Oxygen Digester #1	Yes Yes Yes Yes Yes Yes Yes	_inches  No  No  No  No  No  No  No  No  No  N
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1  Primary Clarifier #1  Primary Clarifier #2  Oxygen Digester #1  Oxygen Digester #2	Yes	_inches  NO NA  (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
Chlorine Contact Tank  Any freeboard levels < 6 inches from the top of the containment?  If Yes, has the Project Coordinator been notified?  Potential for Off-Site Migration  Lift Station #1  Primary Clarifier #1  Primary Clarifier #2  Oxygen Digester #1  Oxygen Digester #2  Oxygen Activated Sludge Tank	Yes	_inches

Date: 18/31/2015

If Yes, has the Project Coordinator I	Yes	No	(N/A)		
Issues for Potential Corrective Action	on				
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Date: 08/31/2015

Summary of Photographs Photo File Name = <u>PXX</u>	5 Taken   <u>X - 08312015 (</u> P#-MMDDYYYY)
NONE	

Photo Page

Date: <u>08/31/2015</u>

Site Monitoring Explanations
USOR
-NONE
MCC EAST
-NONE
MCC WEST
-HEADWORKS PIPE-NOT DRIPPING
-TRICKLE FILTER VALLT- NOT OVERFLOWING

Attachment 2
August 2015 Intergulf Shipping Manifests

Plea	lease print or type. (Form designed for use on elite (12-pitch) typewriter.)  Form Approved. OMB No. 2050-0039													
*	W	ORM HAZARDOUS ASTE MANIFEST	1. Generator ID	Number	Ž	2. Page 1 of	16	gency Respons	<b>1</b> 5	4. Manifest T O 1	450	umber 1718	6 J.	JK
	5. Generator's Name and Mailing Address  US Oil Recovery  US Oil Recovery										\$)·			
		10333 9	intermed 8	Vo. ste 910				il Recover Richey	ry					
	Gene	rator's Phone	TX 770	Service and servic				iona, TX	77500	(40%) 286	-9198			
	6. Tra	naporier 1 Company Nam	€				<b></b>		:	U.S. EPA ID N	lumber			
	INTERGULF CORPORTION													
	7⊱Ira	nsporter 2 Company Nam	8							U.S. EPAID N	manne)			4.0
	8. Des	signated Facility Name an	d Site Address,	Samuel 188 75			•••••			U.S. EPA ID N	umber		***************************************	
				tergulf Beypori XXXX Bayport SL	VD									
	_		P.	asadenz, Texas						TARIXX	VQu islan	à		
	**********	y's Phone:		or Chinning Name, Hazerd	Class ID Murch			40 0	ingre	T		/ T		
	9a. HM	95, U.S. DOT Description and Packing Group (if a		er Shipping Name, Hazard	Olass, IU NUMDer,			10. Conta No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
R.		i. Yon Hazardous	Westewe	ler-Class (I				*	IT	5,000	G N	CC1	2162	<b>*</b>
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		4.					Ī							
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			en sactiles in section	` 63.004% 8.8						: <b>ا</b> غ ،	" ا ا	774	1 1 / 3	,
	15. (	ERG#: GENERATOR'S/OFFERO	R'S CERTIFICAT	ION: I hereby declare that	the contents of this c	onsignmen	t are fully a	nd accurately de	escribed abov	e by the proper shi				
	ı	marked and labeled/placar	rded, and are in a	Il respects in proper condition	on for transport accor	ding to app	licable inter	national and nat						
	1	certify that the waste mini	imization stateme	nt identified in 40 CFR 262	.27(a) (if i am a large	quantity ge	nerator) or		all quantity ge	enerator) is true.				
	Gener	alcr's/Offeror's Printed/Typ	ped Name			s S	gnaturë	aH.		rentiti s Stoplet i sa		Mo:	nth Day	Year
¥	16. Int	emalional Shipments	h	to U.S.		Export from		Port of er						
MIL		porter signature (for expo	rts only):		11	EXPURITOR	U.O.F	Port of er Date leav			•••••			
ER		ansporter Acknowledgmen		terials									4h D	Vace
ğ	mans	porter 1 Printed/Typed Nor	A 100 March	· NELWS	***	.50	gnature //	71 (11.)	12, (),	64		Mor	ith Day	Year
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	18a. C	Discrepancy Indication Spa	ace Liqu	antity	Туре		<u></u>	Residue		Partial Reje	ection	Į	Full Reje	ection
							Ma	nifest Referenc	e Number:					
놑	18b. A	illernate Facility (or Gener	ator)			***************************************	***************************************			U.S. EPA ID N	umber		***************************************	
Ž		1. 70								1				
E E		y's Phone: lignature of Alternate Facil	ity (or Generator)	***************************************		000000000000000000000000000000000000000	····	***************************************	200000000000000000000000000000000000000		******************	Mo	nth Day	Year
DESIGNATED FACILITY														
Sign	}~~~~~	zardous Waste Report Ma	anagement Metho	d'Codes (i.e., codes for ha	zardous waste treatm	ent, dispos	al, and recy	cling systems)			***************************************	t		
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	20. De	esignated Facility Owner o	r Operator: Certifi	cation of receipt of hazardo	us materials covered	by the mar	ifest excen	t as noted in ite	m 18a				***************************************	
	•	d/Typed Name					gnature				***************************************	οM	nth Day	Year
L.														
EP/	Form	8700-22 (Rev. 3-05) F	revious edition	s are obsolete.						(	3ENEF	ATOR'S	INITIAL	COPY

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*		ORM HAZARDOUS ASTE MANIFEST	1. Generator ID N			2. Page 1 of	3. Einergen	* 111	Phone	4. Manifest	40		J	IK
	5. Get	nerator's Name and Mailing	g Address		***************************************	·	Generalor's			n mailing addre	35)		***************************************	
		US	Oil Recov	ery			() (	Oll Re	bovery					
		100	133 Richm	ond Ave Sie	910		40	o N. Rk	they					
	Gener	rator's Phone: Hot	uston, TX	77042		1	Pa	sadena	, TX 77	506 (40	5) 286	919B		
	6. Tra	nsporter 1 Company Name	3			······	***************************************	******************	••••••	U.S. EPA ID	Number		2	
				interguil (	orporation						R0000	31286	- 1811 1911 #	
	7. Tra	nsporter 2 Company Name	?	······································		***************************************		******************		U.S. EPA ID	Number	***************************************		
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	8. Des	signated Facility Name and	l Site Address	Interguilf E	********	***************************************	***************************************	***************************************		U.S. EPA ID	Number	***************************************	***************************************	
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	Facilit	y's Phone:		/0011.47A	i, ierkestrik					TX	ROOM	31288		
	9a.	9b. U.S. DOT Descriptio	n (including Prope	*************************************	000000000000000000000000000000000000000			10. Contain	ers	11, Total	12. Unit	40	Wasie Codes	
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		SENERATOR'S/OFFEROF marked and labeled/placard												
	E	Exporter, I certify that the co	ontents of this con	signment conform to t	he terms of the attach	ed EPAAcknow	ledgment of (	consent.	-	- ·v	·			İ
		certify that the waste minir ator's/Offeror's Printed/Typ		·····	202.27(a) (ii i am a iar		nature	(ii) ain a sinai	ıı quanuty gen	erator) is true.	******************	Mor	ith Day	Year
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Ľ	16. Int	emational Shipments					<del></del>							┸──┤
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ş	Transp	oorter 2 Printed/Typed Nam	18			Sigi	nature	••••••		***************************************	······	Mor	th Day	Year
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*	18. Dis	screpancy	·····		***************************************			***************************************	·····					
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產	18b. A	Iternate Facility (or Genera	itor)						••••	U.S. EPA ID	Number			
쿵														
X		y's Phone:												
8	18c. S	ignature of Alternate Facilit	ly (or Generator)	·								Mo	nth Day	Year
Z														
DESIGNATED FACILITY	19. Ha	zardous Waste Report Ma	nagement Method		hazardous waste tre:	atment, disposa	, and recyclir	g systems)						
뿝	1.			2.		3.				4.		*		
	······		····						······			***************************************		
		signated Facility Owner or	Operator: Certific	ation of receipt of haz	irdous materials cove	000000000000000000000000000000000000000	******************************	noted in Item	18a			·····		
	Printed	d/Typed Name				Sigi	nature					Moi	nth Day	Year
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1	W	ASTE MANIFEST	1. Generator ID Numbe	r	2. Page 1 of 1	3. Emergency Res	U0108	4. Manifest O 1	450	lumber ) 716	3 J	JK		
	5. G	nerator's Name and Mailin US ON F	g Address <b>(ect) ve iv</b>			Generator's Site Add		han mailing addre	38)					
		10333 R	lichmo <mark>nd Ave</mark>	ste 910		400 N Rkh								
		rator's Phon <b>g KNUS 40</b> 17 ensporter 1 Company Nam			***************************************	Pasadella,	TX 77506	(405) 28		3	***********************	***************************************		
	35	nistona i Company ream	<b>#</b>					U.S. EPA ID Number						
	7. Tri	insporter 2 Company Name	e		***************************************		***************************************	U.S. EPA ID I	lumber	***************************************	••••••••••••			
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	9a. HM	and Packing Group (if a	n (including Proper Ship ny))	ping Name, Hazard Class, ID	Number,	10. C No.	ontainers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	\$		
8		wn Hazardous	s Wastewater-	Cassill		*	T		G N	CC1 :	192			
R								97						
GENERATOR		2.						***************************************			***************************************	•		
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		4.	·······		***************************************							***************************************		
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	14. S	ecial Handling Instructions	and Additional Informat	OR .	***************************************					<b></b>		······································		
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		ERG#:		ter merine is t						1.7	i 1 m	ee		
	15. (	GENERATOR'S/OFFEROR	R'S CERTIFICATION: 11	nereby declare that the conten	its of this consignment :	are fully and accurate	ly described above	by the proper shi	pping name	e, and are cla	ssified, packa	iged,		
	1	marked and labeled/placard Exporter, I certify that the co	led, and are in all respec ontents of this consignme	ts in proper condition for trans ent conform to the terms of the	sport according to applice attached EPA Acknow	able international and lecoment of Consent.	d national governo	nental regulations.	If export sh	ipment and t	am the Prima	ary .		
	Gener	certify that the waste minin ator's/Officior's Printed/Typ	nization statement identi ed Name	fied in 40 CFR 262.27(a) (if i a	am a large quantity gen	erator) or (b) (if i am a nature	small quantity ge	nerator) is true.	***************************************	Mo	ith Day	Year		
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M		emational Shipments	import to U.S.		Export from (		of entry/exit:					···		
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DESIGNATED FACILITY	19. Ha	zardous Waste Report Mar	ragement Method Codes	(i.e., codes for hazardous wa	ste treatment, disposal	, and recycling system	na)	14						
u			<b>2.</b> 7.		,			4.						
			Operator: Certification of	receipt of hazardous material	******************************	******************************	iltem 18a	······································	***************************************	***************************************				
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1	UNIFORM HAZARDOUS WASTE MANIFEST	I. Generalor ID Number N/A	2. Page 1 of	ľ	ncy Response	10.0102		4.5	^{™bar}	K
	5. "Ho/'s Name and Mailing				s Site Address (	if different tha	n mailing addres	(8)		
		Cil Recovery			S Oil Re					
	4	33 Richmond Ave Ste 910			00 N. Ric					
	g Opposition of Honor	Jekon, TX 77042		p	asadena	<u>, TX 77:</u>		5) 286-	<u> 9198</u>	
	6. Transporter 1 Company Name						U.S. EPA ID N			
		Intergulf Corporation	***************************************					30000	31286	
	7. Transporter 2 Company Name	,					U.S. EPAID N	umber		
							110 504104			
	8. Designated Facility Name and	integrali Gayport					U.S. EPA ID N	eumber		
		10020 Bayport BLVD								
		Pasadena, Texas 77%	07				I TX	ROOCO:	31288	
	Facility's Phone:	(284) 47.4 42.14		T	10. Contain			T*********	× 1 864.7.43	
	9a. 9b. U.S. DOT Description HM and Packing Group (if a	n (Including Proper Shipping Name, Hazard Class, ID Number, nv))	k	-	No.	Type	11. Total Quantity	12. Unit   Wt./Vol.	13. Waste Codes	
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	14. Special Handling Instructions	s and Additional Information						93		
	IGC	Frofile Number: 05143								
	ERG	<b>k</b> c							Yazaka -	
	15. GENERATOR'S/OFFEROI	R'S CERTIFICATION: I hereby declare that the contents of th	is consignment	are fully an	d accurately de	scribed above	by the proper st	ipping nam	e, and are dassified, packag	jed,
	marked and labeled/placan	ded, and are in all respects in proper condition for transport ac ontents of this consignment conform to the terms of the attach	cording to appli	icable interr	ational and nation	onal governm	ental regulations	. If export sh	ipment and I am the Primar	у
	I certify that the waste mini	mization statement identified in 40 CFR 262.27(a) (if I am a lar	rge quantity ger	nerator) or (	b) (if i am a sma	il quantity ger	erator) is true.			
Ш	Generator's/Offeror's Printed/Typ	oed Name	Sig	gnature					Month Day	Year
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2	16. International Shipments	Import to U.S.	Export from	U.S.	Port of en		***************************************			
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I S	19. Hazardous Waste Report Mo	anagement Method Codes (i.e., codes for hazardous waste tre	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	al, and recy	cling systems)		4.			
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	5. Ge	nerator's Name and Mailing Address			Generator's Site Addres		in mailing addres	is)	***************************************	***************************************	***************************************
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**Attachment 3** Analytical and Validation Reports – EQ-07 Liquid Sample



# **Level II Data Validation Report**

To: Eric Pastor, P.E. Date: August 11, 2015

From: Brenda Basile, Ph.D. File: USOR Equipment July 215 DUS.doc

RE: Review of Equipment Waste Characterization CC:

Samples Collected July 2015

PBW reviewed one laboratory report from ALS Environmental providing the analytical results for waste samples collected by Effective Environmental on July 8, 2015 at the U. S. Oil Recovery (USOR) Superfund site. The reports were reviewed for conformance to the requirements of SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008), USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010), and the USOR Quality Assurance Project Plan (QAPP) for Site Monitoring and Stabilization (May 2012). The purpose of this sample event was to provide waste characterization data for the disposal of the equipment contents.

Waste samples were analyzed using the following methods:

- SM 4500H+ B pH Value Electrometric Method
- SW-846 7.3.3.2 Reactive Cyanide
- SW-846 7.3.4.2 Reactive Sulfide
- SW-846 1010 Test Methods for Flash Point by Pensky-Martens Closed-Cup Tester
- SW 846 6020A Inductively Coupled Plasma Mass Spectrometry
- SW 846 7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)
- SW-846 8260C Volatile Organic Compounds by Gas Chromatography-Mass Spectrometry (GC/MS)
- SW-846 8270 Semivolatile Organic Compounds by Gas Chromatography-Mass Spectrometry (GC/MS)
- TNRCC 1005 Total Petroleum Hydrocarbons

Quality control (QC) data were reviewed as described in the QAPP and the results of the review are discussed in this memorandum. ALS Environmental (Houston, Texas) is accredited under Texas certificate T104704231-14-14 for the matrices, methods, and analytes reported in this laboratory report. ALS Environmental (Holland, Michigan) is accredited under Texas certificate T104704494-15-6 for cyanide and sulfide.

#### Introduction

The July 2015 sample was analyzed for total metals, semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH). In addition, the sample was analyzed for reactivity (cyanide and sulfide), corrosivity, and ignitability (RCI) using the methods listed above. Table 1 lists the sample identifications cross-referenced to laboratory identifications and the analyses performed for each sample. Data qualified due to exceedances of QC criteria are listed in Table 2.



#### **QC Results**

#### PRESERVATION AND HOLDING TIMES

Samples were received at the laboratory at temperatures less than 6°C.

Samples for pH determination are to be "analyzed immediately". Samples were analyzed in the laboratory; all pH data is qualified as estimated (J) due to holding time exceedances. The remaining analyses were performed within method and QAPP holding times.

#### **BLANKS**

No analytes were detected in field or laboratory quality control blanks.

#### SURROGATE RECOVERIES AND INTERNAL STANDARD AREAS

The laboratory flags data using statistically derived control limits as a reference. Except for the TPH analysis, surrogate recoveries were within the QAPP acceptance criteria. TPH surrogate recoveries were 0% for the USOR-Storage Hopper Liquid sample. Since the sample was diluted by a factor of 100, data were not qualified.

#### LABORATORY CONTROL SAMPLES

The laboratory flags data using statistically derived control limits as a reference. Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) (if analyzed) recoveries (%R) outside the QAPP acceptance criteria are listed in Table 3. LCS/LCSD precision (as relative percent difference [RPD]) was within QAPP criteria. Field sample data are qualified as shown in Tables 2 and 3.

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Batch or non-project sample data were not evaluated. The laboratory flags data using statistically derived control limits as a reference. Matrix spike/matrix spike duplicate (MS/MSD) recoveries (%R) outside the QAPP criteria are listed in Table 3. Sample data are not qualified if recoveries exceed the QAPP limits and the analyte is not detected. Field sample data are qualified as shown in Tables 2 and 3.

The MS/MSD recoveries for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample were 0 and 5.2%, respectively. Since the MS/MSD recoveries are less than 10% and the analyte was not detected in the sample, the hexachlorocyclopentadiene data for USOR-Storage Hopper Liquid are rejected (R).

#### FIELD PRECISION

Field duplicate samples were not collected; field duplicate precision was not evaluated.

#### **SUMMARY**

Except for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample, analytical data are usable for determining concentrations in waste samples collected from equipment at the USOR Site. The data for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample are rejected due to MS/MSD recoveries below 10%.



### Table 1 Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification	VOCs	SVOCs	Metals	RCI	Comment
USOR-Storage Hopper Liquid	HS15070410-01	Х	Х	Х	Х	TPH; SVOC and Reactive Cyanide MS/MSD

VOCs -Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

RCI - Reactivity, Corrosivity, Ignitability

TPH - Total Petroleum Hydrocarbons

MS/MSD - matrix spike/matrix spike duplicate

### **Table 2 Qualified Data**

Field Identification	Analyte	Qualification	Reason for Qualification
All	рН	J	Holding time exceeded
USOR-Storage Hopper Liquid	2,4-Dinitrophenol	JL	MS/MSD recovery below acceptance criteria
USOR-Storage Hopper Liquid	4-Chloroaniline	JL	LCS recovery below acceptance criteria
USOR-Storage Hopper Liquid	Dibenz(a,h)anthracene	JL	MS/MSD recovery below acceptance criteria
USOR-Storage Hopper Liquid	Hexachlorocyclopentadiene	R	MS/MSD recovery less than 10%
USOR-Storage Hopper Liquid	Indeno(123-cd)pyrene	JL	LCS recovery below acceptance criteria
USOR-Storage Hopper Liquid	Pentachlorophenol	JL	MS/MSD recovery below acceptance criteria

#### **Table 3 Precision and Recovery Exceedances**

Sample	Analyte	Spike Recovery	Spike Duplicate Recovery ^a	Precision	Qualification
LCS-95244	4-Chloroaniline	46.4	42.7	8.23	JL
LCS-95244	Indeno(123-cd)pyrene	57.8	56.8	1.65	JL
LCS-95244	Benzo(b)fluoranthene	63.4	59.4	6.65	None; average > 60%
LCS-95244	Di-n-octyl phthalate	61.9	59.3	4.31	None; average > 60%
USOR-Storage Hopper Liquid	2,4-Dinitrophenol	25.3	32.4	24.6	JL
USOR-Storage Hopper Liquid	4-Nitroaniline	152	286	70.6	None; analyte not detected
USOR-Storage Hopper Liquid	Bis(2- Ethylhexyl)phthalate	-68.3	-115	4.34	None; sample concentration greater than 4x spike
USOR-Storage Hopper Liquid	Caprolactam	156	297	62	None; analyte not detected
USOR-Storage Hopper Liquid	Dibenz(a,h)anthracene	59.8	56.2	6.38	JL
USOR-Storage Hopper Liquid	Hexachloro- cyclopentadiene	0	5.20	200	R; < 10% recovery
USOR-Storage Hopper Liquid	N-nitrosodiphenylamine	192	240	22.1	None; analyte not detected
USOR-Storage Hopper Liquid	Pentachlorophenol	40.9	52.6	25	JL
USOR-Storage Hopper Liquid	Pyrene	137	141	2.8	None; analyte not detected

JL - Data are estimated due to exceedances of one or more quality control criteria; bias likely low

R - Data are rejected due to failure to meet one or more quality control criteria

R - Data are rejected due to failure to meet one or more quality control criteria



July 20, 2015

Hiren Shah Effective Environmental Inc. 9950 Chemical Road Pasadena, TX 77507 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656

F: +1 281 530 5887 www.alsglobal.com

Work Order: **HS15070410** 

Laboratory Results for: USOR - Storage Hopper Waste 8368

Dear Hiren,

ALS Environmental received 2 sample(s) on Jul 09, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal

Dane J. Wacasey

Date: 20-Jul-15

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 SAMPLE SUMMARY

Work Order: HS15070410

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15070410-01	USOR-Storage Hopper Liquid	Liquid		08-Jul-2015 14:10	09-Jul-2015 13:27	
HS15070410-02	TRIP BLANK 062515-96	Water		08-Jul-2015 00:00	09-Jul-2015 13:27	Ø

Client: Effective Environmental Inc. CASE NARRATIVE

Project: USOR - Storage Hopper Waste 8368

Work Order: HS15070410

# **Work Order Comments**

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °Celsius.

The analyses for Reactive Cyanide and Reactive Sulfide were subcontracted to ALS Environmental in Holland, MI.

#### GC Semivolatiles by Method TX1005

#### Batch ID: 95249

Sample ID: USOR-Storage Hopper Liquid (HS15070410-01)

· Surrogate could not be calculated due to dilution beyond the calibration range.

# **GCMS Semivolatiles by Method SW8270**

# Batch ID: 95244

Sample ID: USOR-Storage Hopper Liquid (HS15070410-01 MS/MSD)

One or more of the matrix spike (MS) and the matrix spike duplicate (MSD) compounds for the EPA 8270 analysis were recovered
outside of the quality control limits due to sample matrix interference. The LCS sample associated to this sample was within control
limits

Sample ID: USOR-Storage Hopper Liquid (HS15070410-01)

• The RPD between the MS and MSD was outside of the control limit.

Sample ID: USOR-Storage Hopper Liquid (HS15070410-01)

• The sample was analyzed at 10x due to sample matrix. The sample is product.

# **GCMS Volatiles by Method SW8260**

# Batch ID: R258086

Sample ID: USOR-Storage Hopper Liquid (HS15070410-01)

• The sample could not be analyzed at a lesser dilution due to sample matrix. The sample is product.

Sample ID: HS15070717-01

MS/MSD is for an unrelated sample.

# Metals by Method SW7470

Batch ID: 95163

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

# Metals by Method SW6020

Batch ID: 95097

Sample ID: HS15070203-05

• MS and MSD are for an unrelated sample.

# WetChemistry by Method SW1010

Batch ID: R257851

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

# WetChemistry by Method SM4500H+ B

# Batch ID: R257687

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Project: USOR - Storage Hopper Waste 8368

Sample ID: USOR-Storage Hopper Liquid

Collection Date: 08-Jul-2015 14:10

**ANALYTICAL REPORT** 

WorkOrder:HS15070410 Lab ID:HS15070410-01

Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method:SV	V8260				Analyst: PC
1,1,1-Trichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2,2-Tetrachloroethane	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2-Trichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1-Dichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1-Dichloroethene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2,4-Trichlorobenzene	U		0.55	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dibromo-3-chloropropane	U		0.80	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dibromoethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichlorobenzene	U		0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichloroethane	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichloropropane	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
1,3-Dichlorobenzene	U		0.55	2.5	mg/Kg	500	17-Jul-2015 12:49
1,4-Dichlorobenzene	U		0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
2-Butanone	U		0.65	5.0	mg/Kg	500	17-Jul-2015 12:49
2-Hexanone	U		0.70	5.0	mg/Kg	500	17-Jul-2015 12:49
4-Methyl-2-pentanone	U		1.0	5.0	mg/Kg	500	17-Jul-2015 12:49
Acetone	U		1.6	10	mg/Kg	500	17-Jul-2015 12:49
Benzene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromodichloromethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromoform	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromomethane	U		0.50	5.0	mg/Kg	500	17-Jul-2015 12:49
Carbon disulfide	U		0.30	5.0	mg/Kg	500	17-Jul-2015 12:49
Carbon tetrachloride	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Chlorobenzene	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Chloroethane	U		0.40	5.0	mg/Kg	500	17-Jul-2015 12:49
Chloroform	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Chloromethane	U		0.25	5.0	mg/Kg	500	17-Jul-2015 12:49
cis-1,2-Dichloroethene	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
cis-1,3-Dichloropropene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Cyclohexane	U	n	0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
Dibromochloromethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Dichlorodifluoromethane	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Ethylbenzene	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Isopropylbenzene	U		0.45	2.5	mg/Kg	500	17-Jul-2015 12:49
m,p-Xylene	U		0.80	5.0	mg/Kg	500	17-Jul-2015 12:49
Methyl acetate	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Methyl tert-butyl ether	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Methylcyclohexane	U		0.60	2.5	mg/Kg	500	17-Jul-2015 12:49

Project: USOR - Storage Hopper Waste 8368

Sample ID: USOR-Storage Hopper Liquid

Collection Date: 08-Jul-2015 14:10

**ANALYTICAL REPORT** 

WorkOrder:HS15070410 Lab ID:HS15070410-01

Matrix:Liquid

ANALYSES	RESULT QUA	AL MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	Met	hod:SW8260				Analyst: PC
Methylene chloride	11	0.50	5.0	mg/Kg	500	17-Jul-2015 12:49
o-Xylene	U	0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
Styrene	U	0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Tetrachloroethene	4.3	0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Toluene	U	0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
trans-1,2-Dichloroethene	U	0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
trans-1,3-Dichloropropene	U	0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Trichloroethene	U	0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Trichlorofluoromethane	U	0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Vinyl chloride	U	0.40	1.0	mg/Kg	500	17-Jul-2015 12:49
Xylenes, Total	U	1.2	5.0	mg/Kg	500	17-Jul-2015 12:49
Surr: 1,2-Dichloroethane-d4	89.1		70-128	%REC	500	17-Jul-2015 12:49
Surr: 4-Bromofluorobenzene	97.2		73-126	%REC	500	17-Jul-2015 12:49
Surr: Dibromofluoromethane	98.6		71-128	%REC	500	17-Jul-2015 12:49
Surr: Toluene-d8	89.8		73-127	%REC	500	17-Jul-2015 12:49

USOR - Storage Hopper Waste 8368

Sample ID: USOR-Storage Hopper Liquid

Collection Date: 08-Jul-2015 14:10

Project:

**ANALYTICAL REPORT** 

WorkOrder:HS15070410 Lab ID:HS15070410-01

Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method:S	W8270		Prep:SW3580A	v / 15-Jul-2015	Analyst: GEY
1,1´-Biphenyl	U		0.41	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4,5-Trichlorophenol	U		0.21	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4,6-Trichlorophenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dichlorophenol	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dimethylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dinitrophenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dinitrotoluene	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2,6-Dinitrotoluene	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Chloronaphthalene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Chlorophenol	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Methylnaphthalene	U		0.27	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Methylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Nitroaniline	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Nitrophenol	U		0.18	1.7	mg/Kg	10	15-Jul-2015 18:43
3&4-Methylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
3,3'-Dichlorobenzidine	U		0.19	1.7	mg/Kg	10	15-Jul-2015 18:43
3-Nitroaniline	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4,6-Dinitro-2-methylphenol	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Bromophenyl phenyl ether	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chloro-3-methylphenol	U		0.33	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chloroaniline	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chlorophenyl phenyl ether	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Nitroaniline	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Nitrophenol	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
Acenaphthene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Acenaphthylene	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Acetophenone	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Anthracene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Atrazine	U		0.40	1.7	mg/Kg	10	15-Jul-2015 18:43
Benz(a)anthracene	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzaldehyde	U	n	0.40	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(a)pyrene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(b)fluoranthene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(g,h,i)perylene	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(k)fluoranthene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroethoxy)methane	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroethyl)ether	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroisopropyl)ether	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-ethylhexyl)phthalate	640		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43

Project: USOR - Storage Hopper Waste 8368

Sample ID: USOR-Storage Hopper Liquid

Collection Date: 08-Jul-2015 14:10

**ANALYTICAL REPORT** 

WorkOrder:HS15070410 Lab ID:HS15070410-01

Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method:S	W8270		Prep:SW3580A / 15-Jul-20		Analyst: GEY
Butyl benzyl phthalate	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Caprolactam	U		0.51	1.7	mg/Kg	10	15-Jul-2015 18:43
Carbazole	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Chrysene	U		0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
Dibenz(a,h)anthracene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Dibenzofuran	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Diethyl phthalate	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Dimethyl phthalate	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Di-n-butyl phthalate	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Di-n-octyl phthalate	U		0.19	1.7	mg/Kg	10	15-Jul-2015 18:43
Fluoranthene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Fluorene	U		0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorobenzene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorobutadiene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorocyclopentadiene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachloroethane	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Indeno(1,2,3-cd)pyrene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Isophorone	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Naphthalene	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Nitrobenzene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
N-Nitrosodi-n-propylamine	U		0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
N-Nitrosodiphenylamine	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Pentachlorophenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Phenanthrene	U		0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Phenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Pyrene	U		0.43	1.7	mg/Kg	10	15-Jul-2015 18:43
Surr: 2,4,6-Tribromophenol	72.1			36-126	%REC	10	15-Jul-2015 18:43
Surr: 2-Fluorobiphenyl	91.8			43-125	%REC	10	15-Jul-2015 18:43
Surr: 2-Fluorophenol	73.4			37-125	%REC	10	15-Jul-2015 18:43
Surr: 4-Terphenyl-d14	85.2			32-125	%REC	10	15-Jul-2015 18:43
Surr: Nitrobenzene-d5	77.8			37-125	%REC	10	15-Jul-2015 18:43
Surr: Phenol-d6	63.7			40-125	%REC	10	15-Jul-2015 18:43

Project: USOR - Storage Hopper Waste 8368

Sample ID: USOR-Storage Hopper Liquid

Collection Date: 08-Jul-2015 14:10

**ANALYTICAL REPORT** 

WorkOrder:HS15070410 Lab ID:HS15070410-01

Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020		Prep:SW3010A	/ 10-Jul-2015	Analyst: RPM
Antimony	0.0319	J	0.00400	0.0500	mg/L	1	14-Jul-2015 11:56
Arsenic	0.0102	J	0.00400	0.0500	mg/L	1	14-Jul-2015 11:56
Barium	0.0584		0.0190	0.0500	mg/L	1	14-Jul-2015 11:56
Beryllium	U		0.00200	0.0200	mg/L	1	14-Jul-2015 11:56
Cadmium	0.00446	J	0.00200	0.0200	mg/L	1	14-Jul-2015 11:56
Chromium	0.0140	J	0.00400	0.0500	mg/L	1	14-Jul-2015 11:56
Lead	1.23		0.00600	0.0500	mg/L	1	14-Jul-2015 11:56
Nickel	0.0551		0.00600	0.0500	mg/L	1	14-Jul-2015 11:56
Selenium	U		0.0110	0.0500	mg/L	1	14-Jul-2015 11:56
Silver	0.00242	J	0.00200	0.0500	mg/L	1	14-Jul-2015 11:56
IGNITABILITY		Method	:SW1010				Analyst: KAH
Ignitability	> 212		50.0	50.0	°F	1	14-Jul-2015 15:20
MERCURY BY SW7470A		Method	:SW7470		Prep:SW7470 /	13-Jul-2015	Analyst: JCJ
Mercury	0.00460		0.000320	0.00160	mg/L	1	13-Jul-2015 16:47
TEXAS TPH BY TX1005		Method	i:TX1005		Prep:TX1005PR	/ 15-Jul-2015	Analyst: JKP
nC6 to nC12	U		5600	28000	mg/Kg	100	16-Jul-2015 03:30
>nC12 to nC28	460,000		5600	28000	mg/Kg	100	16-Jul-2015 03:30
>nC28 to nC35	300,000		5600	28000	mg/Kg	100	16-Jul-2015 03:30
Total Petroleum Hydrocarbon	760,000		5600	28000	mg/Kg	100	16-Jul-2015 03:30
Surr: 2-Fluorobiphenyl	0	s		70-130	%REC	100	16-Jul-2015 03:30
Surr: Trifluoromethyl benzene	0	S		70-130	%REC	100	16-Jul-2015 03:30
PH BY SM4500H+ B		Method:S	M4500H+ B				Analyst: AP
pH	6.56	Н	0.100	0.100	pH Units	1	10-Jul-2015 15:08
Temp Deg C @pH	22.7	Н	0	0	°C	1	10-Jul-2015 15:08
REACTIVE CYANIDE		Method:	SW7.3.3.2				Analyst: SUB
Reactive Cyanide	U		100	100	mg/Kg	1	15-Jul-2015 16:20
REACTIVE SULFIDE		Method:	SW7.3.4.2				Analyst: SUB
Reactive Sulfide	U		100	100	mg/Kg	1	15-Jul-2015 15:15

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 DATES REPORT

WorkOrder: HS15070410

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95097	Test Name	: ICP-MS METALS BY SV	V6020A	Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10		10 Jul 2015 08:48	14 Jul 2015 11:56	1
Batch ID 95163	Test Name	: MERCURY BY SW7470	A	Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10		13 Jul 2015 09:24	13 Jul 2015 16:47	1
Batch ID 95244	Test Name	: SEMIVOLATILES		Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10		15 Jul 2015 07:56	15 Jul 2015 18:43	10
Batch ID 95249	Test Name	: TEXAS TPH BY TX1005		Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10		15 Jul 2015 09:41	16 Jul 2015 03:30	100
Batch ID R2576	87 Test Name	: PH BY SM4500H+ B		Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			10 Jul 2015 15:08	1
Batch ID R2578	51 Test Name	: IGNITABILITY		Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			14 Jul 2015 15:20	1
Batch ID R2579	62 Test Name	: REACTIVE SULFIDE		Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			15 Jul 2015 16:20	1
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			15 Jul 2015 16:20	1
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			15 Jul 2015 15:15	1
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			15 Jul 2015 15:15	1
Batch ID R2580	86 <b>Test Nam</b> e	: VOLATILES BY SW8260	)C	Matrix:	Liquid	
HS15070410-01	USOR-Storage Hopper	Liquid 08 Jul 2015 14:10			17 Jul 2015 12:49	500

Client: Effective Environmental Inc.

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 9524	19		Instrui	ment:	FID-13		Metho	od: TX1005	j	
MBLK	Sample ID:	MBLK-95249			Units:	mg/Kg	Ana	ılysis Date:	15-Jul-2015	23:48
Client ID:			Run ID:	FID-13	257941	SeqNo: 3	356667	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
nC6 to nC12		U		50						
>nC12 to nC28		U		50						
>nC28 to nC35		U		50						
Total Petroleum I	Hydrocarbon	U		50						
Surr: 2-Fluorobip	henyl	26.02		0	25	0	104	70 - 130		
Surr: Trifluorome	thyl benzene	26.15		0	25	0	105	70 - 130		
LCS	Sample ID:	LCS-95249			Units:	mg/Kg	Ana	ılysis Date:	16-Jul-2015	00:20
Client ID:			Run ID:	FID-13	_257941	SeqNo: 3	356668	PrepDate:	15-Jul-2015	DF: 1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
nC6 to nC12		393		50	500	0	78.6	75 - 125		
>nC12 to nC28		542.2		50	500	0	108	75 - 125		
Surr: 2-Fluorobip	henyl	31.43		0	25	0	126	70 - 130		
Surr: Trifluorome	thyl benzene	28.7		0	25	0	115	70 - 130		
LCSD	Sample ID:	LCSD-95249			Units:	mg/Kg	Ana	alysis Date:	16-Jul-2015	00:52
Client ID:			Run ID:	FID-13	_257941	SeqNo: 3	356669	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
nC6 to nC12		396.3		50	500	0	79.3	75 - 125	393	0.849 20
>nC12 to nC28		524.5		50	500	0	105	75 - 125	542.2	3.32 20
Surr: 2-Fluorobip	henyl	29.95		0	25	0	120	70 - 130	31.43	4.81 20
Surr: Trifluorome	thyl benzene	29.84		0	25	0	119	70 - 130	28.7	3.9 20
MS	Sample ID:	HS15070470-01	MS		Units:	mg/Kg	Ana	alysis Date:	16-Jul-2015	01:56
Client ID:			Run ID:	FID-13	_257941	SeqNo: 3	356671	PrepDate:	15-Jul-2015	DF: 1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
nC6 to nC12		216.1		50	249.3	0	86.7	75 - 125		
>nC12 to nC28		245.6		50	249.3	4.492	96.7	75 - 125		
Surr: 2-Fluorobip	henyl	30.24		0	24.93	0	121	70 - 130		
Surr: Trifluorome	thyl benzene	28.99		0	24.93	0	116	70 - 130		

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QC BATCH REPORT

WorkOrder: HS15070410

Batch ID: 95249 Instrument: FID-13 Method: TX1005 MSD Sample ID: HS15070470-01MSD Units: mg/Kg Analysis Date: 16-Jul-2015 02:27 Client ID: Run ID: FID-13_257941 SeqNo: 3356672 PrepDate: 15-Jul-2015 RPD Ref SPK Ref Control RPD %RPD Limit Qual PQL SPK Val %REC Analyte Result Value Limit Value nC6 to nC12 0 221.4 50 249.3 88.8 75 - 125 216.1 2.43 20 >nC12 to nC28 50 8.9 20 224.7 249.3 4.492 88.4 75 - 125 245.6 Surr: 2-Fluorobiphenyl 29.93 0 24.93 0 120 70 - 130 30.24 1.04 20 Surr: Trifluoromethyl benzene 27.56 0 24.93 0 111 70 - 130 28.99 5.08 20

The following samples were anayzed in this batch: HS15070410-01

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95097			Instrument:	ICPMS05		Metho	d: SW602	0	
MBLK	Sample ID:	MBLK-95097		Units:	mg/L	Ana	ılysis Date:	14-Jul-2015	10:22
Client ID:		F	Run ID: ICPM	S05_257811	SeqNo: 3	353415	PrepDate:	10-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Antimony		U	0.00500						
Arsenic		U	0.00500						
Barium		U	0.00500						
Beryllium		U	0.00200						
Cadmium		U	0.00200						
Chromium		U	0.00500						
Lead		U	0.00500						
Nickel		U	0.00500						
Selenium		U	0.00500						
Silver		U	0.00500						
LCS	Sample ID:	MLCS-95097		Units:	mg/L	Ana	ılysis Date:	14-Jul-2015	10:25
Client ID:		F	Run ID: ICPM	S05_257811	SeqNo: 3	353416	PrepDate:	10-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Antimony		0.04426	0.00500	0.05	0	88.5	80 - 120		
Arsenic		0.04354	0.00500	0.05	0	87.1	80 - 120		
Barium		0.04359	0.00500	0.05	0	87.2	80 - 120		
Beryllium		0.04468	0.00200	0.05	0	89.4	80 - 120		
Cadmium		0.04574	0.00200	0.05	0	91.5	80 - 120		
Chromium		0.04344	0.00500	0.05	0	86.9	80 - 120		
Lead		0.04491	0.00500	0.05	0	89.8	80 - 120		
Lead		0.04491 0.04244	0.00500	0.05 0.05	0	89.8 84.9	80 - 120 80 - 120		

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 9509	17	I	nstrument:	ICPMS05		Metho	d: SW6020	)		
MS	Sample ID:	HS15070203-05MS		Units:	mg/L	Ana	ılysis Date:	14-Jul-2015	10:54	
Client ID:		Ru	in ID: ICPMS	S05_257811	SeqNo: 3	353427	PrepDate:	10-Jul-2015	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Antimony		0.04304	0.00500	0.05	0.000066	86.0	80 - 120			
Arsenic		0.04643	0.00500	0.05	0.003532	85.8	80 - 120			
Barium		0.06709	0.00500	0.05	0.02671	80.8	80 - 120			
Beryllium		0.0535	0.00200	0.05	0.001953	103	80 - 120			
Cadmium		0.04284	0.00200	0.05	0.000269	85.1	80 - 120			
Chromium		0.04126	0.00500	0.05	0.000406	81.7	80 - 120			
Lead		0.04327	0.00500	0.05	0.001487	83.6	80 - 120			
Nickel		0.07036	0.00500	0.05	0.03084	79.0	80 - 120			
Selenium		0.04254	0.00500	0.05	0.000912	83.3	80 - 120			
Silver	***************************************	0.04263	0.00500	0.05	0.000115	85.0	80 - 120			
MSD	Sample ID:	HS15070203-05MS	D	Units:	mg/L	Ana	ılysis Date:	14-Jul-2015	10:56	
Client ID:		Ru	in ID: ICPMS	305_257811	SeqNo: 3	353428	PrepDate:	10-Jul-2015	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Antimony		0.04318	0.00500	0.05	0.000066	86.2	80 - 120	0.04304	0.332 20	
Arsenic		0.04709	0.00500	0.05	0.003532	87.1	80 - 120	0.04643	1.4 20	
Barium		0.06955	0.00500	0.05	0.02671	85.7	80 - 120	0.06709	3.59 20	
Beryllium		0.05292	0.00200	0.05	0.001953	102	80 - 120	0.0535	1.09 20	
Cadmium		0.04396	0.00200	0.05	0.000269	87.4	80 - 120	0.04284	2.57 20	
Chromium		0.04142	0.00500	0.05	0.000406	82.0	80 - 120	0.04126	0.389 20	
Lead		0.04389	0.00500	0.05	0.001487	84.8	80 - 120	0.04327	1.42 20	
Nickel		0.07053	0.00500	0.05	0.03084	79.4	80 - 120	0.07036	0.236 20	
Selenium		0.04594	0.00500	0.05	0.000912	90.1	80 - 120	0.04254	7.69 20	
Silver		0.04287	0.00500	0.05	0.000115	85.5	80 - 120	0.04263	0.552 20	

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95097		ı	nstrument:	ICPMS05		Metho	d: SW6020	)	
DUP	Sample ID:	HS15070203-05DU	IP	Units:	mg/L	Ana	lysis Date:	14-Jul-2015	10:48
Client ID:		Ru	un ID: ICPM	S05_257811	SeqNo: 3	353425	PrepDate:	10-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Antimony		U	0.00500					0.000066	0 20
Arsenic		0.003417	0.00500					0.003532	0 20
Barium		0.02594	0.00500					0.02671	2.95 20
Beryllium		0.001809	0.00200					0.001953	0 20
Cadmium		0.00022	0.00200					0.000269	0 20
Chromium		0.000475	0.00500					0.000406	0 20
Lead		0.001322	0.00500					0.001487	0 20
Nickel		0.03084	0.00500					0.03084	0.00973 20
Selenium		U	0.00500					0.000912	0 20
Silver		U	0.00500					0.000115	0 20
PDS	Sample ID:	HS15070203-05BS	;	Units:	mg/L	Ana	lysis Date:	14-Jul-2015	10:59
Client ID:		Ri	un ID: ICPM	S05_257811	SeqNo: 3	353429	PrepDate:	10-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
A 1.									
Antimony		0.08517	0.00500	0.1	0	85.2	75 - 125		
Antimony		0.08517 0.08998	0.00500 0.00500	0.1	0.003532	85.2 86.4	75 - 125 75 - 125		
•									
Arsenic		0.08998	0.00500	0.1	0.003532	86.4	75 - 125		
Arsenic Barium		0.08998 0.1128	0.00500 0.00500	0.1 0.1	0.003532 0.02671	86.4 86.1	75 - 125 75 - 125		
Arsenic Barium Beryllium		0.08998 0.1128 0.08965	0.00500 0.00500 0.00200	0.1 0.1 0.1	0.003532 0.02671 0.001953	86.4 86.1 87.7	75 - 125 75 - 125 75 - 125		
Arsenic Barium Beryllium Cadmium		0.08998 0.1128 0.08965 0.08868	0.00500 0.00500 0.00200 0.00200	0.1 0.1 0.1 0.1	0.003532 0.02671 0.001953 0.000269	86.4 86.1 87.7 88.4	75 - 125 75 - 125 75 - 125 75 - 125		
Arsenic Barium Beryllium Cadmium Chromium		0.08998 0.1128 0.08965 0.08868 0.08504	0.00500 0.00500 0.00200 0.00200 0.00500	0.1 0.1 0.1 0.1	0.003532 0.02671 0.001953 0.000269 0.000406	86.4 86.1 87.7 88.4 84.6	75 - 125 75 - 125 75 - 125 75 - 125 75 - 125		
Arsenic Barium Beryllium Cadmium Chromium Lead		0.08998 0.1128 0.08965 0.08868 0.08504 0.08755	0.00500 0.00500 0.00200 0.00200 0.00500 0.00500	0.1 0.1 0.1 0.1 0.1 0.1	0.003532 0.02671 0.001953 0.000269 0.000406 0.001487	86.4 86.1 87.7 88.4 84.6 86.1	75 - 125 75 - 125 75 - 125 75 - 125 75 - 125 75 - 125		

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Batch ID: 95097 Instrument: ICPMS05 Method: SW6020

SD	Sample ID:	HS15070203-05 D	IL SX		Units:	mg/L	Ana	lysis Date:	14-Jul-2015 1	0:51		
Client ID:		F	un ID:	ICPMS	S05_257811	SeqNo: 3	353426	PrepDate:	10-Jul-2015	DF:	5	
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony		U	0.0	0250					0.000066	(	) 10	
Arsenic		0.002973	0.0	0250					0.003532	(	10	
Barium		0.02619	0.0	0250					0.02671	1.9	4 10	
Beryllium		0.001721	0.0	0100					0.001953	(	10	
Cadmium		U	0.0	0100					0.000269	(	10	
Chromium		U	0.0	0250					0.000406	(	10	
Lead		U	0.0	0250					0.001487	(	10	
Nickel		0.03275	0.0	0250					0.03084	6.2	2 10	
Selenium		U	0.0	0250					0.000912	(	10	
Silver		U	0.0	0250					0.000115	(	0 10	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Effective Environmental Inc. Client:

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Mercury

Batch ID: 95163 Instrument: HG03 Method: SW7470 **MBLK** Sample ID: MBLK-95163 Units: mg/L Analysis Date: 13-Jul-2015 16:27 Client ID: Run ID: HG03_257785 SeqNo: 3352748 PrepDate: 13-Jul-2015 SPK Ref Control RPD Ref RPD Analyte Result **PQL** SPK Val Value %REC Limit Value %RPD Limit Qual

LCS Sample ID: LCS-95163 Units: mg/L Analysis Date: 13-Jul-2015 16:28 Client ID: Run ID: HG03_257785 SeqNo: 3352749 PrepDate: 13-Jul-2015 SPK Ref Control RPD Ref RPD Analyte PQL SPK Val %REC %RPD Limit Qual Result Value Limit Value

Mercury 0.00474 0.000200 0.005 0 94.8 80 - 124

0.000200

U

MS Sample ID: HS15070374-01MS Units: mg/L Analysis Date: 13-Jul-2015 16:42 Client ID: Run ID: HG03_257785 SeqNo: 3352757 PrepDate: 13-Jul-2015 SPK Ref Control RPD Ref RPD **PQL** SPK Val %REC %RPD Limit Qual Analyte Result Value Limit Value

0.000200 0.005 -0.000008 Mercury 0.00509 102 80 - 124

MSD HS15070374-01MSD Sample ID: Units: mg/L Analysis Date: 13-Jul-2015 16:44 Client ID: Run ID: HG03 257785 SeqNo: 3352758 PrepDate: 13-Jul-2015 SPK Ref Control RPD Ref RPD %RPD Limit Qual PQL SPK Val %REC Analyte Result Limit Value Value

0.000200 0.005 -0.000008 80 - 124 2.79 20 Mercury 0.00495 99.2 0.00509

DUP Sample ID: HS15070374-01DUP Analysis Date: 13-Jul-2015 16:40 Units: mg/L Run ID: HG03_257785 SeqNo: 3352756 PrepDate: 13-Jul-2015 Client ID: SPK Ref Control RPD Ref RPD %RPD Limit Qual PQL SPK Val %REC Analyte Result Value Limit Value

Mercury U 0.000200 -0.000008 0 20

The following samples were analyzed in this batch:  $\overline{\mathrm{HS15070410-01}}$ 

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Inchartant HC15070410

Batch ID: 95244		Instrument:	SV-5		Metho	d: SW8270	)	
MBLK Sample ID:	MBLK-95244		Units:	ug/Kg	Ana	lysis Date:	15-Jul-2015	15:30
Client ID:	F	Run ID: <b>SV-5</b> _	257952	SeqNo: 3	3357302	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1´-Biphenyl	U	170						
2,4,5-Trichlorophenol	U	170						
2,4,6-Trichlorophenol	U	170						
2,4-Dichlorophenol	U	170						
2,4-Dimethylphenol	U	170						
2,4-Dinitrophenol	U	170						
2,4-Dinitrotoluene	U	170						
2,6-Dinitrotoluene	U	170						
2-Chloronaphthalene	U	170						
2-Chlorophenol	U	170						•••••
2-Methylnaphthalene	U	170						
2-Methylphenol	U	170						
2-Nitroaniline	U	170						
2-Nitrophenol	U	170						
3&4-Methylphenol	U	170						
3,3'-Dichlorobenzidine	U	170						
3-Nitroaniline	U	170						
4,6-Dinitro-2-methylphenol	U	170						
4-Bromophenyl phenyl ether	U	170						
4-Chloro-3-methylphenol	U	170						
4-Chloroaniline	U	170						
4-Chlorophenyl phenyl ether	U	170						
4-Nitroaniline	U	170						
4-Nitrophenol	U	170						
Acenaphthene	U	170						
Acenaphthylene	U	170						
Acetophenone	U	170						
Anthracene	U	170						
Atrazine	U	170						
Benz(a)anthracene	U	170						
Benzaldehyde	U	170						
Benzo(a)pyrene	U	170						
Benzo(b)fluoranthene	U	170						
Benzo(g,h,i)perylene	U	170						

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244	li	nstrument:	SV-5		Metho	d: SW827	0	
MBLK Sample ID:	MBLK-95244		Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	15:30
Client ID:	Ru	in ID: SV-5_	257952	SeqNo: 33	357302	PrepDate:	15-Jul-2015	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzo(k)fluoranthene	U	170						
Bis(2-chloroethoxy)methane	U	170						
Bis(2-chloroethyl)ether	U	170						
Bis(2-chloroisopropyl)ether	U	170						
Bis(2-ethylhexyl)phthalate	U	170						
Butyl benzyl phthalate	U	170						
Caprolactam	U	170						
Carbazole	U	170						
Chrysene	U	170						
Dibenz(a,h)anthracene	U	170						
Dibenzofuran	U	170						
Diethyl phthalate	U	170						
Dimethyl phthalate	U	170						
Di-n-butyl phthalate	U	170						
Di-n-octyl phthalate	U	170						
Fluoranthene	U	170						
Fluorene	U	170						
Hexachlorobenzene	U	170						
Hexachlorobutadiene	U	170						
Hexachlorocyclopentadiene	U	170						
Hexachloroethane	U	170						
Indeno(1,2,3-cd)pyrene	U	170						•••••
Isophorone	U	170						
Naphthalene	U	170						
Nitrobenzene	U	170						
N-Nitrosodi-n-propylamine	U	170						
N-Nitrosodiphenylamine	U	170						
Pentachlorophenol	U	170						
Phenanthrene	U	170						
Phenol	U	170						
Pyrene	U	170						
Surr: 2,4,6-Tribromophenol	91400	170	111100	0	82.3	36 - 126		
Surr: 2-Fluorobiphenyl	91080	170	111100	0	82.0	43 - 125		
Surr: 2-Fluorophenol	84900	170	111100	0	76.4	37 - 125		

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QC BATCH REPORT

WorkOrder: HS15070410

Batch ID: 95244		Instri	ument:	SV-5		Metho	od: SW827	0	
MBLK	Sample ID:	MBLK-95244		Units:	ug/Kg	Ana	alysis Date:	15-Jul-2015	15:30
Client ID:		Run ID	: SV-5	_257952	SeqNo: 3	357302	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 4-Terphenyl-	d14	81110	170	111100	0	73.0	32 - 125		
Surr: Nitrobenzene	e-d5	81710	170	111100	0	73.5	37 - 125		
Surr: Phenol-d6		81530	170	111100	0	73.4	40 - 125		

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244		Instrument	: SV-5		Metha	d: SW8270	)	
LCS Sample ID:	LCS-95244		Units	ug/Kg	Ana	ılysis Date:	15-Jul-2015	13:59
Client ID:	F	Run ID: SV-	5_257952	SeqNo: 3	357300	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1'-Biphenyl	59440	170	55570	0	107	55 - 120		
2,4,5-Trichlorophenol	108600	170	111100	0	97.7	55 - 120		
2,4,6-Trichlorophenol	97540	170	111100	0	87.8	55 - 120		
2,4-Dichlorophenol	94080	170	111100	0	84.7	55 - 120		
2,4-Dimethylphenol	92590	170	111100	0	83.3	55 - 125		
2,4-Dinitrophenol	99000	170	111100	0	89.1	40 - 125		
2,4-Dinitrotoluene	50620	170	55570	0	91.1	55 - 125		
2,6-Dinitrotoluene	50870	170	55570	0	91.5	55 - 120		
2-Chloronaphthalene	52630	170	55570	0	94.7	55 - 145		
2-Chlorophenol	92930	170	111100	0	83.6	55 - 120		
2-Methylnaphthalene	45870	170	55570	0	82.6	55 - 120		
2-Methylphenol	92800	170	111100	0	83.5	55 - 120		
2-Nitroaniline	64790	170	55570	0	117	55 - 130		
2-Nitrophenol	94970	170	111100	0	85.5	55 - 120		
3&4-Methylphenol	132500	170	166700	0	79.5	55 - 120		
3,3'-Dichlorobenzidine	41820	170	55570	0	75.3	32 - 125		
3-Nitroaniline	37390	170	55570	0	67.3	43 - 120		
4,6-Dinitro-2-methylphenol	97150	170	111100	0	87.4	50 - 130		
4-Bromophenyl phenyl ether	45760	170	55570	0	82.3	55 - 120		
4-Chloro-3-methylphenol	97270	170	111100	0	87.6	55 - 120		
4-Chloroaniline	25760	170	55570	0	46.4	30 - 120		
4-Chlorophenyl phenyl ether	49250	170	55570	0	88.6	55 - 120		
4-Nitroaniline	50590	170	55570	0	91.0	55 - 120		
4-Nitrophenol	102400	170	111100	0	92.2	50 - 130		
Acenaphthene	51530	170		0	92.7	55 - 120		
Acenaphthylene	50770	170		0	91.4	55 - 120		
Acetophenone	50770	170		0	91.4	54 - 120		
Anthracene	43650	170		0	78.6	55 - 120		
Atrazine	55010	170		0	99.0	55 - 130		
Benz(a)anthracene	41620	170		0	74.9	55 - 125		
Benzaldehyde	54780	170		0	98.6	20 - 132		
Benzo(a)pyrene	37550	170		0	67.6	55 - 120		
Benzo(a)pyrene Benzo(b)fluoranthene	35260	170		0	63.4	55 - 125		
Benzo(g,h,i)perylene	39270	170		0	70.7	55 - 120		
Derizo(g,ii,i)perylette	39270	1/0	55570	U	10.1	55 - 120		

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244		Instrument:	SV-5		Metho	od: SW827	0	
LCS Sample ID:	LCS-95244		Units	ug/Kg	Ana	alysis Date:	15-Jul-2015	13:59
Client ID:	F	Run ID: SV-5	_257952	SeqNo: 3	357300	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzo(k)fluoranthene	44960	170	55570	0	80.9	55 - 130		
Bis(2-chloroethoxy)methane	48670	170	55570	0	87.6	55 - 120		
Bis(2-chloroethyl)ether	42020	170	55570	0	75.6	55 - 120		
Bis(2-chloroisopropyl)ether	49150	170	55570	0	88.5	55 - 120		
Bis(2-ethylhexyl)phthalate	44270	170	55570	0	79.7	55 - 125		
Butyl benzyl phthalate	45750	170	55570	0	82.3	55 - 125		
Caprolactam	53260	170	55570	0	95.8	55 - 140		
Carbazole	44040	170	55570	0	79.3	55 - 120	•••••	
Chrysene	46800	170	55570	0	84.2	55 - 125		
Dibenz(a,h)anthracene	36140	170	55570	0	65.0	55 - 120		
Dibenzofuran	51100	170	55570	0	92.0	55 - 120		
Diethyl phthalate	51220	170	55570	0	92.2	55 - 120		
Dimethyl phthalate	53350	170	55570	0	96.0	55 - 120		
Di-n-butyl phthalate	43590	170	55570	0	78.4	55 - 125		
Di-n-octyl phthalate	34400	170	55570	0	61.9	55 - 130		
Fluoranthene	42890	170	55570	0	77.2	55 - 125		
Fluorene	49990	170	55570	0	90.0	55 - 120		
Hexachlorobenzene	45110	170	55570	0	81.2	55 - 120		
Hexachlorobutadiene	48440	170	55570	0	87.2	55 - 120		
Hexachlorocyclopentadiene	57050	170	55570	0	103	50 - 120		
Hexachloroethane	48560	170	55570	0	87.4	55 - 120		
Indeno(1,2,3-cd)pyrene	32120	170	55570	0	57.8	55 - 125		
Isophorone	51580	170	55570	0	92.8	55 - 120		
Naphthalene	48390	170	55570	0	87.1	55 - 120		
Nitrobenzene	49320	170	55570	0	88.8	55 - 120		
N-Nitrosodi-n-propylamine	47810	170	55570	0	86.0	55 - 120		
N-Nitrosodiphenylamine	42900	170	55570	0	77.2	55 - 120		
Pentachlorophenol	93500	170	111100	0	84.2	50 - 135		
Phenanthrene	44790	170	55570	0	80.6	55 - 120		
Phenol	95060	170	111100	0	85.6	50 - 120		
Pyrene	48250	170	55570	0	86.8	55 - 125		
Surr: 2,4,6-Tribromophenol	109800	170	111100	0	98.8	36 - 126		
Surr: 2-Fluorobiphenyl	103800	170	111100	0	93.4	43 - 125		
Surr: 2-Fluorophenol	106900	170	111100	0	96.2	37 - 125		
Sun. 2-i idolopilelloi	100300	770	711100	U	30.2	57 - 125		

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QC BATCH REPORT

WorkOrder: HS15070410

Batch ID: 95244		Instri	ument:	SV-5		Metho	od: SW827	0	
LCS	Sample ID:	LCS-95244		Units:	ug/Kg	Ana	alysis Date:	15-Jul-2015	13:59
Client ID:		Run ID	SV-5	_257952	SeqNo: 3	357300	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 4-Terphenyl-c	d14	93530	170	111100	0	84.2	32 - 125		
Surr: Nitrobenzene	-d5	96030	170	111100	0	86.4	37 - 125		
Surr: Phenol-d6		101500	170	111100	0	91.4	40 - 125		

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

1-1-Biphenyl	Batch ID: 95244		Instrum	ent:	SV-5		Metho	d: SW827	0		
Analyse	LCSD Sample ID:	LCSD-95244			Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	14:22	
Analyte   Result   PQL   SPK Val   Value   %REC   Limit   Value   %RPD Limit Qual   1,1-Biphenyl   61650   170   55570   0   111   55-120   59440   3.66   30   2,4-B-Trichlorophenol   105600   170   1111100   0   95.0   55-120   108600   2.82   30   2,4-B-Trichlorophenol   92340   170   1111100   0   91.4   55-120   94080   1.87   30   2,4-Dimethylphenol   93110   170   1111100   0   83.1   55-120   94080   1.87   30   2,4-Dimethylphenol   93110   170   1111100   0   83.4   40-125   92590   0.564   30   2,4-Dimitrophenol   92690   170   1111100   0   83.4   40-125   99000   6.59   30   2,4-Dimitrophenol   92690   170   1111100   0   83.4   40-125   99000   6.59   30   2,4-Dimitrophenol   94520   170   55570   0   891.   55-125   50620   2.19   30   2,4-Dimitrophenol   94520   170   55570   0   99.8   55-125   50620   2.19   30   2,4-Dimitrophenol   94520   170   55570   0   99.8   55-125   50620   2.19   30   2,4-Dimitrophenol   94600   170   1111100   0   81.4   55-120   92630   2.76   30   2,4-Dimitrophenol   94600   170   1111100   0   81.4   55-120   92630   2.76   30   2,4-Dimitrophenol   94600   170   1111100   0   80.8   55-120   92630   2.76   30   2,4-Dimitrophenol   95600   170   1111100   0   80.8   55-120   92630   2.76   30   2,4-Dimitrophenol   89740   170   1111100   0   80.8   55-120   92600   3.08   30   2,4-Dimitrophenol   89800   170   1111100   0   80.8   55-120   92600   3.08   30   2,4-Dimitrophenol   95800   170   1111100   0   80.8   55-120   92600   5.33   30   3,3-Dichloroberizdine   40700   170   55570   0   73.2   3,2-1350   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3,3-3   3	Client ID:		Run ID:	SV-5_	257952	SeqNo: 3	357301	PrepDate:	15-Jul-2015	DF: 1	
2,4,5-Trichlorophenol         105600         170         111100         0         95.0         55.120         106800         2.8         30           2,4,6-Trichlorophenol         101600         170         111100         0         91.4         55.120         97540         406         30           2,4-Dichlorophenol         92340         170         111100         0         83.1         55.120         94080         1.87         30           2,4-Dimitrophenol         92890         170         111100         0         83.4         40.125         99000         6.59         30           2,4-Dimitrophenol         92890         170         111100         0         83.4         40.125         99000         6.59         30           2,4-Dimitrophenol         49820         170         55570         0         80.8         55.125         50600         0.855         30           2,4-Dimitrophenol         50440         170         55570         0         90.8         55.120         96800         0.85         30           2,-Chlorophenol         90400         170         111100         0         81.4         55.120         96200         2.7         30           2	Analyte	Result	F	PQL	SPK Val		%REC				
2.4.6-Trichlorophenol         101600         170         111100         0         91.4         55 - 120         97540         4.0         81           2.4-Dinkrophenol         92340         170         111100         0         83.1         65 - 120         94080         1.7         30           2.4-Dinkrophenol         92310         170         111100         0         83.4         40 - 125         95000         6.59         30           2.4-Dinkrophenol         49520         170         55570         0         83.4         40 - 125         56620         2.19         30           2.4-Dinkrotoluene         50440         170         55570         0         90.8         55 - 120         50870         0.85         30           2.Chlorophthol         90400         170         55570         0         97.3         55 - 120         92800         2.76         30           2.Chlorophthole         44830         170         111100         0         80.8         55 - 120         48670         2.0         30           2.Wethyliphenol         48970         170         111100         0         80.8         55 - 120         94970         86.8         30           2.	1,1'-Biphenyl	61650		170	55570	0	111	55 - 120	59440	3.66	30
2,4-Dichlorophenol         92340         170         111100         0         83.1         65-120         94080         1.87         30           2,4-Diniterhylphenol         93110         170         111100         0         83.8         55-125         92590         0.564         30           2,4-Dinitrophenol         92680         170         111100         0         83.4         40-125         99000         6.59         30           2,4-Dinitrotoluene         59440         170         55570         0         90.8         55-120         50820         2.19         30           2,C-Diorophenol         59400         170         111100         0         81.4         55-120         92930         2.76         30           2-Methylphenol         99400         170         1111100         0         81.4         55-120         92930         2.76         30           2-Methylphenol         89740         170         111100         0         80.8         55-120         92930         2.76         30           2-Mitrophenol         95800         170         111100         0         86.2         55-120         94970         0.865         30           2-Mitropheno	2,4,5-Trichlorophenol	105600		170	111100	0	95.0	55 - 120	108600	2.82	30
2,4-Dimethylphenol         93110         170         111100         0         83.8         55-125         92590         0.564         30           2,4-Dimitrophenol         92690         170         111100         0         83.4         40-125         99000         6.59         30           2,4-Dimitrobluene         49520         170         55570         0         89.1         55-125         50620         2.19         30           2,6-Dimitrobluene         50440         170         55570         0         89.1         55-125         50620         2.78         30           2-Chlorosphthallene         54470         170         55570         0         81.4         55-120         50890         2.76         30           2-Methylnaphthalene         44930         170         1111100         0         81.4         55-120         45870         2.07         30           2-Methylphenol         89740         170         155570         0         119         55-120         92800         33         30           2-Nitrophenol         195800         170         111100         0         85.5         152         41820         2.72         30           3.3-Dichiorbeno	2,4,6-Trichlorophenol	101600		170	111100	0	91.4	55 - 120	97540	4.06	30
2,4-Dinitrophenol         92690         170         111100         0         83.4         40 - 125         99000         6.59         30           2,4-Dinitrotoluene         49520         170         55570         0         89.1         55 - 125         50620         2.19         30           2,6-Dinitrotoluene         50440         170         55570         0         90.8         55 - 120         50670         0.855         30           2-Chlorophenol         90400         170         111100         0         81.4         55 - 120         92930         2.76         30           2-Methylpaphenol         89740         170         111100         0         80.8         55 - 120         92800         3.6         50           2-Mitrophenol         89740         170         111100         0         80.8         55 - 120         92800         3.6         50           2-Nitrophenol         95800         170         111100         0         86.2         55 - 120         92800         3.6         211         30           2-Nitrophenol         95800         170         166700         0         75.4         33 - 125         41820         2.72         30	2,4-Dichlorophenol	92340		170	111100	0	83.1	55 - 120	94080	1.87	30
2,4-Dinitrotoluene         49520         170         55570         0         89.1         55-125         50620         2.19         30           2,6-Dinitrotoluene         50440         170         55570         0         90.8         55-120         50870         0.855         30           2-Chlorophenol         90400         170         55570         0         89.3         55-120         45870         2.07         30           2-Methylpahrollaene         44930         170         55570         0         80.9         55-120         45870         2.07         30           2-Methylpahrollaene         48930         170         111100         0         80.8         55-120         49800         3.36         30           2-Mitrophiline         66170         170         55570         0         119         55-120         49870         0.862         30         40         2.0         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         45         51.20         4920         0.86         2.72 </td <td>2,4-Dimethylphenol</td> <td>93110</td> <td></td> <td>170</td> <td>111100</td> <td>0</td> <td>83.8</td> <td>55 - 125</td> <td>92590</td> <td>0.564</td> <td>30</td>	2,4-Dimethylphenol	93110		170	111100	0	83.8	55 - 125	92590	0.564	30
2,6-Dinitrotoluene 50440 170 55570 0 90.8 55-120 50870 0.855 30 2-Chloronaphthalene 54070 170 55570 0 97.3 55-145 52630 2.7 30 2-Chlorophenol 90400 170 1111100 0 81.4 55-120 92930 2.76 30 2-Methylnaphthalene 44930 170 55570 0 80.9 55-120 45870 2.07 30 2-Methylnaphthalene 89740 170 1111100 0 80.8 55-120 45870 2.07 30 2-Methylphenol 89740 170 1111100 0 80.8 55-120 92800 3.36 30 2-Methylphenol 66170 170 55570 0 119 55-130 64790 2.11 30 2-Mitrophenol 95800 170 111100 0 86.2 55-120 94970 0.865 30 3-Mitrophenol 95800 170 111100 0 86.2 55-120 94970 0.865 30 3-Mitrophenol 125600 170 166700 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 125600 170 55570 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 95800 170 111100 0 86.2 55-120 94970 0.865 30 3-Mitrophenol 95800 170 186700 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 95800 170 186700 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 95800 170 186700 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 95800 170 186700 0 75.4 55-120 132500 5.33 30 3-Mitrophenol 95800 170 186700 0 85.6 50-130 97150 2.15 30 3-Mitrophenol 95800 170 18800 0 75.4 55-120 97710 2.73 30 3-Mitrophenol 95800 170 18800 0 95.5 55-120 97710 2.13 30 3-Mitrophenol 95800 170 18800 0 95.5 55-120 97720 2.33 30 3-Mitrophenol 95800 170 18800 0 95.5 55-120 97270 2.33 30 3-Mitrophenol 95800 170 55570 0 85.5 55-120 97270 2.33 30 3-Mitrophenol 95800 170 55570 0 85.5 55-120 97270 2.33 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50590 0.21 30 3-Mitrophenol 95800 170 55570 0 95.9 55-120 50570 0.77 30 30 30 30 30 30 30 30 30 30 30 30 30	2,4-Dinitrophenol	92690		170	111100	0	83.4	40 - 125	99000	6.59	30
2-Chloronaphthalene         54070         170         55570         0         97.3         55 - 145         52630         2.7         30           2-Chlorophenol         90400         170         111100         0         81.4         55 - 120         92930         2.76         30           2-Methylphenol         89740         170         111100         0         80.8         55 - 120         92800         3.36         30           2-Mitrophenol         89740         170         111100         0         80.8         55 - 120         92800         3.36         30           2-Nitrophenol         95800         170         111100         0         86.2         55 - 120         94970         0.86         30           2-Nitrophenol         95800         170         111100         0         86.2         55 - 120         94970         0.86         30           3.3Dichlorobenzidine         40700         170         55570         0         73.2         32 - 125         41820         2.72         30           3.3Dichlorobenzidine         40040         170         55570         0         72.1         43 - 120         979         5.15         30           4-B	2,4-Dinitrotoluene	49520		170	55570	0	89.1	55 - 125	50620	2.19	30
2-Chlorophenol 90400 170 111100 0 81.4 55 - 120 92930 2.76 30 24Methylnaphthalene 44930 170 55570 0 80.9 55 - 120 45870 2.07 30 24Methylphenol 89740 170 111100 0 80.8 55 - 120 92800 3.36 30 2-Nitroanilline 66170 170 55570 0 119 55 - 130 64790 2.11 30 2-Nitrophenol 95800 170 111100 0 86.2 55 - 120 94970 0.865 30 384-Methylphenol 95800 170 111100 0 86.2 55 - 120 94970 0.865 30 384-Methylphenol 125600 170 166700 0 75.4 55 - 120 132500 5.33 30 31 31 31 31 31 31 31 31 31 31 31 31 31	2,6-Dinitrotoluene	50440		170	55570	0	90.8	55 - 120	50870	0.855	30
2-Methylnaphthalene         44930         170         55570         0         80.9         55.120         45870         2.07         30           2-Methylphenol         89740         170         111100         0         80.8         55.120         92800         3.36         30           2-Nitroaniline         66170         170         55570         0         119         55.130         64790         2.11         30           2-Nitrophenol         95800         170         111100         0         86.2         55.120         94970         0.865         30           384-Methylphenol         125600         170         166700         0         75.4         55.120         194970         0.865         30           3.3'-Dichlorobenzidine         40700         170         55570         0         72.1         43.120         37390         66.85         30           3-Nitroaniline         40040         170         55570         0         72.1         43.120         37390         68.85         30           4-Bromophenyl phenyl ether         46390         170         111100         0         85.5         55.120         45760         1.3         30           4-Chl	2-Chloronaphthalene	54070		170	55570	0	97.3	55 - 145	52630	2.7	30
2-Methylphenol         89740         170         111100         0         80.8         55.120         92800         3.36         30           2-Nitroaniline         66170         170         55570         0         119         55-130         64790         2.11         30           2-Nitrophenol         95800         170         111100         0         86.2         55-120         94970         0.865         30           384-Methylphenol         125600         170         166700         0         75.4         55-120         94970         0.865         30           3,3'-Dichlorobenzidine         40700         170         55570         0         73.2         32-125         41820         2.72         30           3-Nitroaniline         40040         170         55570         0         72.1         43-120         37390         6.85         30           4-Bromophenyl phenyl ether         46390         170         55570         0         85.6         50-130         97150         2.15         30           4-Chloroaniline         23720         170         55570         0         85.5         55-120         97270         2.33         30           4-Nitroanili	2-Chlorophenol	90400		170	111100	0	81.4	55 - 120	92930	2.76	30
2-Nitroaniline         66170         170         55570         0         119         55-130         64790         2.11         30           2-Nitrophenol         95800         170         111100         0         86.2         55-120         94970         0.865         30           3.84-Methylphenol         125600         170         166700         0         75.4         55-120         132500         5.33         30           3.31-Dichlorobenzidine         40700         170         55570         0         73.2         32-125         41820         2.72         30           3-Nitroanilline         40040         170         55570         0         72.1         43-120         37390         6.85         30           4-Bromophenyl phenyl ether         46390         170         55570         0         85.6         50-130         97150         2.15         30           4-Chloro-3-methylphenol         95030         170         111100         0         85.5         55-120         97270         2.33         30           4-Chloro-3-methylphenol         95030         170         55570         0         85.5         55-120         97270         2.33         30	2-Methylnaphthalene	44930		170	55570	0	80.9	55 - 120	45870	2.07	30
2-Nitrophenol 95800 170 111100 0 86.2 55 - 120 94970 0.865 30 384-Methylphenol 125600 170 166700 0 75.4 55 - 120 132500 5.33 30 33.5 - Dichlorobenzidine 40700 170 55570 0 73.2 32 - 125 41820 2.72 30 3-Nitroaniline 40040 170 55570 0 73.2 32 - 125 41820 2.72 30 3-Nitroaniline 40040 170 55570 0 72.1 43 - 120 37390 6.85 30 4.6-Dinitro-2-methylphenol 95090 170 111100 0 85.6 50 - 130 97150 2.15 30 4-Bromophenyl phenyl ether 46390 170 55570 0 83.5 55 - 120 45760 1.37 30 4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chlorophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitrophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitrophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 50590 0.213 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Cenaphthene 52120 170 55570 0 93.8 55 - 120 50590 0.213 30 4-Cenaphthylene 52160 170 55570 0 93.8 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50700 0.177 30 4-Cenaphthylene 52	2-Methylphenol	89740		170	111100	0	80.8	55 - 120	92800	3.36	30
384-Methylphenol         125600         170         166700         0         75.4         55-120         132500         5.33         30           3,3'-Dichlorobenzidine         40700         170         55570         0         73.2         32-125         41820         2.72         30           3-Nitroaniline         40040         170         55570         0         72.1         43-120         37390         6.85         30           4-Bromophenyl phenol         95090         170         111100         0         85.6         50-130         97150         2.15         30           4-Bromophenyl phenyl ether         46390         170         55570         0         83.5         55-120         45760         1.37         30           4-Chloro-3-methylphenol         95030         170         111100         0         85.5         55-120         97270         2.33         30           4-Chlorophenyl phenyl ether         49690         170         55570         0         89.4         55-120         49250         0.881         30           4-Nitrophenol         102100         170         55570         0         99.9         55-120         50590         0.213         30	2-Nitroaniline	66170		170	55570	0	119	55 - 130	64790	2.11	30
3,3'-Dichlorobenzidine 40700 170 55570 0 73.2 32 - 125 41820 2.72 30 3-Nitroaniline 40040 170 55570 0 72.1 43 - 120 37390 6.85 30 4,6-Dinitro-2-methylphenol 95090 170 111100 0 85.6 50 - 130 97150 2.15 30 4-Bromophenyl phenyl ether 46390 170 55570 0 83.5 55 - 120 45760 1.37 30 4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chloro-3-methylphenol 95030 170 55570 0 89.4 55 - 120 97270 2.33 30 4-Chlorophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitroaniline 50480 170 55570 0 89.4 55 - 120 49250 0.813 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Chlorophenyl phenyl ether 52120 170 55570 0 93.8 55 - 120 50590 0.213 30 4-Chlorophenol 52120 170 55570 0 93.8 55 - 120 50770 0.71 30 4-Chlorophenol 52160 170 55570 0 93.9 55 - 120 50770 0.71 30 4-Chlorophenol 52160 170 55570 0 93.9 55 - 120 50770 0.71 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 54 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 55 - 120 50770 0.17 30 4-Chlorophenol 50680 170 55570 0 91.2 55 - 120 50770 0.17 30	2-Nitrophenol	95800		170	111100	0	86.2	55 - 120	94970	0.865	30
3-Nitroaniline         40040         170         55570         0         72.1         43 - 120         37390         6.85         30           4,6-Dinitro-2-methylphenol         95090         170         111100         0         85.6         50 - 130         97150         2.15         30           4-Bromophenyl phenyl ether         46390         170         55570         0         83.5         55 - 120         45760         1.37         30           4-Chloro-3-methylphenol         95030         170         55570         0         85.5         55 - 120         97270         2.33         30           4-Chloroaniline         23720         170         55570         0         42.7         30 - 120         25760         8.23         30           4-Chlorophenyl phenyl ether         49690         170         55570         0         89.4         55 - 120         49250         0.881         30           4-Nitroaniline         50480         170         55570         0         99.9         55 - 120         50590         0.213         30           4-Nitrophenol         102100         170         111100         0         91.9         50 - 130         102400         0.32         30	3&4-Methylphenol	125600		170	166700	0	75.4	55 - 120	132500	5.33	30
4,6-Dinitro-2-methylphenol         95090         170         111100         0         85.6         50 - 130         97150         2.15         30           4-Bromophenyl phenyl ether         46390         170         55570         0         83.5         55 - 120         45760         1.37         30           4-Chloro-3-methylphenol         95030         170         111100         0         85.5         55 - 120         97270         2.33         30           4-Chlorophenyl phenyl ether         49690         170         55570         0         42.7         30 - 120         25760         8.23         30           4-Nitrophenyl phenyl ether         49690         170         55570         0         89.4         55 - 120         49250         0.881         30           4-Nitrophenol         102100         170         55570         0         90.9         55 - 120         50590         0.213         30           4-enaphthene         52120         170         55570         0         91.9         50 - 130         102400         0.32         30           Acenaphthylene         52160         170         55570         0         93.8         55 - 120         50770         2.71         3	3,3'-Dichlorobenzidine	40700		170	55570	0	73.2	32 - 125	41820	2.72	30
4-Bromophenyl phenyl ether 46390 170 55570 0 83.5 55 - 120 45760 1.37 30 4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chloroaniline 23720 170 55570 0 42.7 30 - 120 25760 8.23 30 4-Chlorophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitroaniline 50480 170 55570 0 90.9 55 - 120 50590 0.213 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 4-Cenaphthene 52120 170 55570 0 93.8 55 - 120 51530 1.14 30 4-Cenaphthylene 52160 170 55570 0 93.9 55 - 120 50770 2.71 30 4-Cetophenone 50680 170 55570 0 93.9 55 - 120 50770 0.177 30 4-Ratazine 55780 170 55570 0 91.2 54 - 120 50770 0.177 30 4-Ratazine 55780 170 55570 0 83.9 55 - 120 43650 0.00932 30 4-Ratazine 55780 170 55570 0 83.9 55 - 120 43650 0.00932 30 4-Ratazine 55780 170 55570 0 99.0 20 - 132 54780 0.383 30 4-Ratazine 54690 170 55570 0 99.0 20 - 132 54780 0.383 30 4-Ratazine 36530 170 55570 0 99.0 20 - 132 54780 0.383 30 4-Ratazine 36530 170 55570 0 65.7 55 - 120 37550 2.78 30 4-Ratazine 36530 170 55570 0 59.4 55 - 125 35260 6.65 30	3-Nitroaniline	40040		170	55570	0	72.1	43 - 120	37390	6.85	30
4-Chloro-3-methylphenol 95030 170 111100 0 85.5 55 - 120 97270 2.33 30 4-Chloroaniline 23720 170 55570 0 42.7 30 - 120 25760 8.23 30 4-Chlorophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitroaniline 50480 170 55570 0 90.9 55 - 120 50590 0.213 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 Acenaphthene 52120 170 55570 0 93.8 55 - 120 51530 1.14 30 Acenaphthylene 52160 170 55570 0 93.8 55 - 120 50770 2.71 30 Acetophenone 50680 170 55570 0 91.2 54 - 120 50770 0.177 30 Anthracene 43650 170 55570 0 91.2 54 - 120 50770 0.177 30 Atrazine 55780 170 55570 0 78.6 55 - 120 43650 0.00932 30 Atrazine 55780 170 55570 0 83.9 55 - 125 41620 1.44 30 Benza(a)anthracene 46640 170 55570 0 83.9 55 - 125 41620 1.14 30 Benza(a)pyrene 36530 170 55570 0 99.0 20 - 132 54780 0.383 30 Benzo(a)pyrene 36530 170 55570 0 65.7 55 - 120 37550 2.78 30 Benzo(b)fluoranthene 32990 170 55570 0 59.4 55 - 125 35260 6.65 30	4,6-Dinitro-2-methylphenol	95090		170	111100	0	85.6	50 - 130	97150	2.15	30
4-Chloroaniline         23720         170         55570         0         42.7         30 - 120         25760         8.23         30           4-Chlorophenyl phenyl ether         49690         170         55570         0         89.4         55 - 120         49250         0.881         30           4-Nitroaniline         50480         170         55570         0         90.9         55 - 120         50590         0.213         30           4-Nitrophenol         102100         170         111100         0         91.9         50 - 130         102400         0.32         30           Acenaphthene         52120         170         55570         0         93.8         55 - 120         51530         1.14         30           Acenaphthylene         52160         170         55570         0         93.9         55 - 120         50770         2.71         30           Acetophenone         50680         170         55570         0         91.2         54 - 120         50770         0.177         30           Attrazine         55780         170         55570         0         78.6         55 - 120         43650         0.0932         30           Benz(a)anth	4-Bromophenyl phenyl ether	46390		170	55570	0	83.5	55 - 120	45760	1.37	30
4-Chlorophenyl phenyl ether 49690 170 55570 0 89.4 55 - 120 49250 0.881 30 4-Nitroaniline 50480 170 55570 0 90.9 55 - 120 50590 0.213 30 4-Nitrophenol 102100 170 111100 0 91.9 50 - 130 102400 0.32 30 Acenaphthene 52120 170 55570 0 93.8 55 - 120 51530 1.14 30 Acenaphthylene 52160 170 55570 0 93.9 55 - 120 50770 2.71 30 Acetophenone 50680 170 55570 0 91.2 54 - 120 50770 0.177 30 Anthracene 43650 170 55570 0 78.6 55 - 120 43650 0.00932 30 Atrazine 55780 170 55570 0 100 55 - 130 55010 1.39 30 Benza(a)anthracene 46640 170 55570 0 83.9 55 - 125 41620 11.4 30 Benza(a)pyrene 36530 170 55570 0 99.0 20 - 132 54780 0.383 30 Benzo(a)pyrene 36530 170 55570 0 59.4 55 - 120 37550 2.78 30 Benzo(b)fluoranthene 32990 170 55570 0 59.4 55 - 125 35260 6.65 30	4-Chloro-3-methylphenol	95030		170	111100	0	85.5	55 - 120	97270	2.33	30
4-Nitroaniline         50480         170         55570         0         90.9         55 - 120         50590         0.213         30           4-Nitrophenol         102100         170         111100         0         91.9         50 - 130         102400         0.32         30           Acenaphthene         52120         170         55570         0         93.8         55 - 120         51530         1.14         30           Acenaphthylene         52160         170         55570         0         93.9         55 - 120         50770         2.71         30           Acetophenone         50680         170         55570         0         91.2         54 - 120         50770         0.177         30           Anthracene         43650         170         55570         0         78.6         55 - 120         43650         0.0932         30           Atrazine         55780         170         55570         0         78.6         55 - 120         43650         0.0932         30           Benza(a)anthracene         46640         170         55570         0         83.9         55 - 125         41620         11.4         30           Benza(a)pyrene	4-Chloroaniline	23720		170	55570	0	42.7	30 - 120	25760	8.23	30
4-Nitrophenol         102100         170         111100         0         91.9         50 - 130         102400         0.32         30           Acenaphthene         52120         170         55570         0         93.8         55 - 120         51530         1.14         30           Acenaphthylene         52160         170         55570         0         93.9         55 - 120         50770         2.71         30           Acetophenone         50680         170         55570         0         91.2         54 - 120         50770         0.177         30           Anthracene         43650         170         55570         0         78.6         55 - 120         43650         0.00932         30           Atrazine         55780         170         55570         0         100         55 - 130         55010         1.39         30           Benz(a)anthracene         46640         170         55570         0         83.9         55 - 125         41620         11.4         30           Benza(dehyde         54990         170         55570         0         99.0         20 - 132         54780         0.383         30           Benzo(b)fluoranthene	4-Chlorophenyl phenyl ether	49690		170	55570	0	89.4	55 - 120	49250	0.881	30
Acenaphthene         52120         170         55570         0         93.8         55 - 120         51530         1.14         30           Acenaphthylene         52160         170         55570         0         93.9         55 - 120         50770         2.71         30           Acetophenone         50680         170         55570         0         91.2         54 - 120         50770         0.177         30           Anthracene         43650         170         55570         0         78.6         55 - 120         43650         0.00932         30           Atrazine         55780         170         55570         0         100         55 - 130         55010         1.39         30           Benz(a)anthracene         46640         170         55570         0         83.9         55 - 125         41620         11.4         30           Benza(dehyde         54990         170         55570         0         99.0         20 - 132         54780         0.383         30           Benzo(b)fluoranthene         32990         170         55570         0         65.7         55 - 120         37550         2.78         30	4-Nitroaniline	50480		170	55570	0	90.9	55 - 120	50590	0.213	30
Acenaphthylene       52160       170       55570       0       93.9       55 - 120       50770       2.71       30         Acetophenone       50680       170       55570       0       91.2       54 - 120       50770       0.177       30         Anthracene       43650       170       55570       0       78.6       55 - 120       43650       0.00932       30         Atrazine       55780       170       55570       0       100       55 - 130       55010       1.39       30         Benz(a)anthracene       46640       170       55570       0       83.9       55 - 125       41620       11.4       30         Benzaldehyde       54990       170       55570       0       99.0       20 - 132       54780       0.383       30         Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30	4-Nitrophenol	102100		170	111100	0	91.9	50 - 130	102400	0.32	30
Acetophenone         50680         170         55570         0         91.2         54 - 120         50770         0.177         30           Anthracene         43650         170         55570         0         78.6         55 - 120         43650         0.00932         30           Atrazine         55780         170         55570         0         100         55 - 130         55010         1.39         30           Benza(a)anthracene         46640         170         55570         0         83.9         55 - 125         41620         11.4         30           Benzaldehyde         54990         170         55570         0         99.0         20 - 132         54780         0.383         30           Benzo(a)pyrene         36530         170         55570         0         65.7         55 - 120         37550         2.78         30           Benzo(b)fluoranthene         32990         170         55570         0         59.4         55 - 125         35260         6.65         30	Acenaphthene	52120		170	55570	0	93.8	55 - 120	51530	1.14	30
Acetophenone       50680       170       55570       0       91.2       54 - 120       50770       0.177       30         Anthracene       43650       170       55570       0       78.6       55 - 120       43650       0.00932       30         Atrazine       55780       170       55570       0       100       55 - 130       55010       1.39       30         Benza(a)anthracene       46640       170       55570       0       83.9       55 - 125       41620       11.4       30         Benzaldehyde       54990       170       55570       0       99.0       20 - 132       54780       0.383       30         Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30	Acenaphthylene			170	55570		93.9	55 - 120		2.71	30
Anthracene       43650       170       55570       0       78.6       55 - 120       43650       0.00932       30         Atrazine       55780       170       55570       0       100       55 - 130       55010       1.39       30         Benz(a)anthracene       46640       170       55570       0       83.9       55 - 125       41620       11.4       30         Benzaldehyde       54990       170       55570       0       99.0       20 - 132       54780       0.383       30         Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30	Acetophenone	50680		170	55570	0	91.2	54 - 120	50770	0.177	30
Atrazine       55780       170       55570       0       100       55 - 130       55010       1.39       30         Benz(a)anthracene       46640       170       55570       0       83.9       55 - 125       41620       11.4       30         Benzaldehyde       54990       170       55570       0       99.0       20 - 132       54780       0.383       30         Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30	Anthracene				55570						
Benz(a)anthracene       46640       170       55570       0       83.9       55 - 125       41620       11.4       30         Benzaldehyde       54990       170       55570       0       99.0       20 - 132       54780       0.383       30         Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30											
Benzaldehyde         54990         170         55570         0         99.0         20 - 132         54780         0.383         30           Benzo(a)pyrene         36530         170         55570         0         65.7         55 - 120         37550         2.78         30           Benzo(b)fluoranthene         32990         170         55570         0         59.4         55 - 125         35260         6.65         30	Benz(a)anthracene										
Benzo(a)pyrene       36530       170       55570       0       65.7       55 - 120       37550       2.78       30         Benzo(b)fluoranthene       32990       170       55570       0       59.4       55 - 125       35260       6.65       30	, ,										
Benzo(b)fluoranthene 32990 170 55570 0 59.4 55 - 125 35260 6.65 30	·							~~~~~	~~~~~		
	Benzo(g,h,i)perylene	38380			55570	0	69.1	55 - 120	39270		

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244	Ins	strument:	SV-5		Metho	d: SW827	0	
LCSD Sample ID:	LCSD-95244		Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	14:22
Client ID:	Run	ID: SV-5_	257952	SeqNo: 3	357301	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzo(k)fluoranthene	43580	170	55570	0	78.4	55 - 130	44960	3.11 30
Bis(2-chloroethoxy)methane	48360	170	55570	0	87.0	55 - 120	48670	0.647 30
Bis(2-chloroethyl)ether	41720	170	55570	0	75.1	55 - 120	42020	0.721 30
Bis(2-chloroisopropyl)ether	48030	170	55570	0	86.4	55 - 120	49150	2.31 30
Bis(2-ethylhexyl)phthalate	43300	170	55570	0	77.9	55 - 125	44270	2.22 30
Butyl benzyl phthalate	45930	170	55570	0	82.7	55 - 125	45750	0.398 30
Caprolactam	51490	170	55570	0	92.7	55 - 140	53260	3.38 30
Carbazole	43980	170	55570	0	79.1	55 - 120	44040	0.145 30
Chrysene	47100	170	55570	0	84.8	55 - 125	46800	0.638 30
Dibenz(a,h)anthracene	34940	170	55570	0	62.9	55 - 120	36140	3.38 30
Dibenzofuran	51930	170	55570	0	93.5	55 - 120	51100	1.61 30
Diethyl phthalate	52300	170	55570	0	94.1	55 - 120	51220	2.09 30
Dimethyl phthalate	55270	170	55570	0	99.5	55 - 120	53350	3.53 30
Di-n-butyl phthalate	43070	170	55570	0	77.5	55 - 125	43590	1.19 30
Di-n-octyl phthalate	32950	170	55570	0	59.3	55 - 130	34400	4.31 30
Fluoranthene	42570	170	55570	0	76.6	55 - 125	42890	0.746 30
Fluorene	50220	170	55570	0	90.4	55 - 120	49990	0.474 30
Hexachlorobenzene	46840	170	55570	0	84.3	55 - 120	45110	3.76 30
Hexachlorobutadiene	49000	170	55570	0	88.2	55 - 120	48440	1.16 30
Hexachlorocyclopentadiene	59220	170	55570	0	107	50 - 120	57050	3.74 30
Hexachloroethane	47730	170	55570	0	85.9	55 - 120	48560	1.74 30
Indeno(1,2,3-cd)pyrene	31590	170	55570	0	56.8	55 - 125	32120	1.65 30
Isophorone	51170	170	55570	0	92.1	55 - 120	51580	0.804 30
Naphthalene	48580	170	55570	0	87.4	55 - 120	48390	0.402 30
Nitrobenzene	49710	170	55570	0	89.5	55 - 120	49320	0.796 30
N-Nitrosodi-n-propylamine	46360	170	55570	0	83.4	55 - 120	47810	3.07 30
N-Nitrosodiphenylamine	44910	170	55570	0	80.8	55 - 120	42900	4.59 30
Pentachlorophenol	93190	170	111100	0	83.9	50 - 135	93500	0.335 30
Phenanthrene	44470	170	55570	0	80.0	55 - 120	44790	0.707 30
Phenol	89890	170	111100	0	80.9	50 - 120	95060	5.58 30
Pyrene	48930	170	55570	0	88.1	55 - 125	48250	1.4 30
Surr: 2,4,6-Tribromophenol	109200	170	111100	0	98.3	36 - 126	109800	0.567 30
Surr: 2-Fluorobiphenyl	105800	170	111100	0	95.3	43 - 125	103800	1.93 30
Surr: 2-Fluorophenol	107300	170	111100	0	96.6	37 - 125	106900	0.433 30
Зин. 2-гиоторпеног	107300	170	111100	0	30.0	31 - 123	100900	0.433 30

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QC BATCH REPORT

WorkOrder: HS15070410

Batch ID: 95244		Instri	ument:	SV-5		Metho	d: SW827	0	
LCSD	Sample ID:	LCSD-95244		Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	14:22
Client ID:		Run ID	: SV-5	_257952	SeqNo: 3	357301	PrepDate:	15-Jul-2015	DF: <b>1</b>
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 4-Terphenyl-	d14	93180	170	111100	0	83.9	32 - 125	93530	0.384 30
Surr: Nitrobenzene	e-d5	96590	170	111100	0	86.9	37 - 125	96030	0.576 30
Surr: Phenol-d6		99060	170	111100	0	89.2	40 - 125	101500	2.43 30

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244	Ins	trument:	SV-5		Metho	od: SW827	0	
MS Sample ID:	HS15070410-01MS		Units:	ug/Kg	Ana	alysis Date:	15-Jul-2015	19:09
Client ID: USOR-Storage Hop	per Liquid Run	ID: SV-5_	257952	SeqNo: 3	357308	PrepDate:	15-Jul-2015	DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1´-Biphenyl	71090	1700	55570	0	128	55 - 120		S
2,4,5-Trichlorophenol	79620	1700	111100	0	71.7	55 - 120		
2,4,6-Trichlorophenol	86040	1700	111100	0	77.4	55 - 120		
2,4-Dichlorophenol	70610	1700	111100	0	63.6	55 - 120		
2,4-Dimethylphenol	95920	1700	111100	0	86.3	55 - 125		
2,4-Dinitrophenol	28100	1700	111100	0	25.3	40 - 125		5
2,4-Dinitrotoluene	84320	1700	55570	0	152	55 - 125		S
2,6-Dinitrotoluene	65430	1700	55570	0	118	55 - 120		
2-Chloronaphthalene	50400	1700	55570	0	90.7	55 - 145		
2-Chlorophenol	87590	1700	111100	0	78.8	55 - 120		
2-Methylnaphthalene	48670	1700	55570	0	87.6	55 - 120		
2-Methylphenol	98320	1700	111100	0	88.5	55 - 120		
2-Nitroaniline	76050	1700	55570	0	137	55 - 130		S
2-Nitrophenol	85090	1700	111100	0	76.6	55 - 120		
3&4-Methylphenol	118800	1700	166700	0	71.3	55 - 120		
3,3'-Dichlorobenzidine	52730	1700	55570	0	94.9	32 - 125		
3-Nitroaniline	40820	1700	55570	0	73.5	43 - 120		
4,6-Dinitro-2-methylphenol	68580	1700	111100	0	61.7	50 - 130		
4-Bromophenyl phenyl ether	40360	1700	55570	0	72.6	55 - 120		
4-Chloro-3-methylphenol	66610	1700	111100	0	60.0	55 - 120		
4-Chloroaniline	38440	1700	55570	0	69.2	30 - 120		
4-Chlorophenyl phenyl ether	58340	1700	55570	0	105	55 - 120		
4-Nitroaniline	84300	1700	55570	0	152	55 - 120		S
4-Nitrophenol	119400	1700	111100	0	107	50 - 130		
Acenaphthene	62140	1700	55570	0	112	55 - 120		
Acenaphthylene	57590	1700	55570	0	104	55 - 120		
Acetophenone	52110	1700	55570	0	93.8	54 - 120		
Anthracene	51530	1700	55570	0	92.7	55 - 120		
Atrazine	69860	1700	55570	0	126	55 - 130		
Benz(a)anthracene	65020	1700	55570	0	117	55 - 125		
Benzaldehyde	46520	1700	55570	0	83.7	20 - 132		
Benzo(a)pyrene	41240	1700	55570	0	74.2	55 - 120		
Benzo(b)fluoranthene	48550	1700	55570	0	87.4	55 - 125		
Benzo(g,h,i)perylene	47980	1700	55570	0	86.4	55 - 120		

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244		Instrument:	SV-5		Metho	od: SW827	0	
MS Sample ID:	HS15070410-01M	S	Units:	ug/Kg	Ana	alysis Date:	15-Jul-2015	19:09
Client ID: USOR-Storage Hop	per Liquid R	Run ID: SV-5	_257952	SeqNo: 3	357308	PrepDate:	15-Jul-2015	DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzo(k)fluoranthene	55930	1700	55570	0	101	55 - 130		
Bis(2-chloroethoxy)methane	44020	1700	55570	0	79.2	55 - 120		
Bis(2-chloroethyl)ether	55720	1700	55570	0	100	55 - 120		
Bis(2-chloroisopropyl)ether	65380	1700	55570	0	118	55 - 120		
Bis(2-ethylhexyl)phthalate	606300	1700	55570	644200	-68.3	55 - 125		so
Butyl benzyl phthalate	55420	1700	55570	0	99.7	55 - 125		
Caprolactam	86930	1700	55570	0	156	55 - 140		S
Carbazole	46570	1700	55570	0	83.8	55 - 120		
Chrysene	58370	1700	55570	0	105	55 - 125		
Dibenz(a,h)anthracene	33280	1700	55570	0	59.9	55 - 120		
Dibenzofuran	54210	1700	55570	0	97.6	55 - 120		
Diethyl phthalate	63290	1700	55570	0	114	55 - 120		
Dimethyl phthalate	54980	1700	55570	0	98.9	55 - 120		
Di-n-butyl phthalate	61580	1700	55570	0	111	55 - 125		
Di-n-octyl phthalate	56030	1700	55570	0	101	55 - 130		
Fluoranthene	54890	1700	55570	0	98.8	55 - 125		
Fluorene	61450	1700	55570	0	111	55 - 120		
Hexachlorobenzene	49270	1700	55570	0	88.7	55 - 120		
Hexachlorobutadiene	39840	1700	55570	0	71.7	55 - 120		
Hexachlorocyclopentadiene	U	1700	55570	0	0	50 - 120		S
Hexachloroethane	56660	1700	55570	0	102	55 - 120		
Indeno(1,2,3-cd)pyrene	65960	1700	55570	0	119	55 - 125		
Isophorone	46840	1700	55570	0	84.3	55 - 120		
Naphthalene	57600	1700	55570	0	104	55 - 120		
Nitrobenzene	52810	1700	55570	0	95.0	55 - 120		
N-Nitrosodi-n-propylamine	44950	1700	55570	0	80.9	55 - 120		
N-Nitrosodiphenylamine	106900	1700	55570	0	192	55 - 120		s
Pentachlorophenol	45430	1700	111100	0	40.9	50 - 135		S
Phenanthrene	51360	1700	55570	0	92.4	55 - 120		
Phenol	94890	1700	111100	0	85.4	50 - 120		
Pyrene	75990	1700	55570	0	137	55 - 125		s
Surr: 2,4,6-Tribromophenol	76850	1700	111100	0	69.2	36 - 126		
Surr: 2-Fluorobiphenyl	110200	1700	111100	0	99.2	43 - 125		
Surr: 2-Fluorophenol	76830	1700	111100	0	69.2	37 - 125		

**Client:** Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QC BATCH REPORT

WorkOrder: HS15070410

Batch ID: 95244 Method: SW8270 Instrument: SV-5 MS Sample ID: HS15070410-01MS Units: ug/Kg Analysis Date: 15-Jul-2015 19:09 **USOR-Storage Hopper Liquid** Run ID: SV-5_257952 SeqNo: 3357308 PrepDate: 15-Jul-2015 Client ID: RPD Ref SPK Ref Control RPD PQL SPK Val %REC %RPD Limit Qual Analyte Result Value Limit Value Surr: 4-Terphenyl-d14 100100 1700 111100 0 90.1 32 - 125 97350 1700 111100 Surr: Nitrobenzene-d5 0 87.6 37 - 125 Surr: Phenol-d6 82700 1700 111100 0 74.4 40 - 125

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244	In	strument:	SV-5		Metho	d: SW827	0			
MSD Sample ID:	HS15070410-01MSI	)	Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	19:34		
Client ID: USOR-Storage Hop	<b>per Liquid</b> Rur	n ID: SV-5_2	257952	SeqNo: 3	357309	PrepDate:	15-Jul-2015	DF: <b>1</b>	0	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD Li	PD mit C	≀ual
1,1´-Biphenyl	72350	1700	55570	0	130	55 - 120	71090	1.76	30	S
2,4,5-Trichlorophenol	101700	1700	111100	0	91.5	55 - 120	79620	24.4	30	
2,4,6-Trichlorophenol	94400	1700	111100	0	85.0	55 - 120	86040	9.27	30	
2,4-Dichlorophenol	74960	1700	111100	0	67.5	55 - 120	70610	5.98	30	
2,4-Dimethylphenol	80700	1700	111100	0	72.6	55 - 125	95920	17.2	30	
2,4-Dinitrophenol	35990	1700	111100	0	32.4	40 - 125	28100	24.6	30	S
2,4-Dinitrotoluene	81320	1700	55570	0	146	55 - 125	84320	3.63	30	S
2,6-Dinitrotoluene	63830	1700	55570	0	115	55 - 120	65430	2.48	30	
2-Chloronaphthalene	67160	1700	55570	0	121	55 - 145	50400	28.5	30	
2-Chlorophenol	90610	1700	111100	0	81.6	55 - 120	87590	3.38	30	
2-Methylnaphthalene	50740	1700	55570	0	91.3	55 - 120	48670	4.17	30	
2-Methylphenol	93650	1700	111100	0	84.3	55 - 120	98320	4.86	30	
2-Nitroaniline	159100	1700	55570	0	286	55 - 130	76050	70.6	30	SR
2-Nitrophenol	76650	1700	111100	0	69.0	55 - 120	85090	10.4	30	
3&4-Methylphenol	144700	1700	166700	0	86.8	55 - 120	118800	19.7	30	
3,3'-Dichlorobenzidine	56920	1700	55570	0	102	32 - 125	52730	7.64	30	
3-Nitroaniline	57040	1700	55570	0	103	43 - 120	40820	33.1	30	R
4,6-Dinitro-2-methylphenol	73600	1700	111100	0	66.2	50 - 130	68580	7.07	30	
4-Bromophenyl phenyl ether	40810	1700	55570	0	73.4	55 - 120	40360	1.12	30	
4-Chloro-3-methylphenol	100700	1700	111100	0	90.7	55 - 120	66610	40.8	30	R
4-Chloroaniline	43020	1700	55570	0	77.4	30 - 120	38440	11.3	30	
4-Chlorophenyl phenyl ether	49060	1700	55570	0	88.3	55 - 120	58340	17.3	30	•••••
4-Nitroaniline	66060	1700	55570	0	119	55 - 120	84300	24.3	30	
4-Nitrophenol	72640	1700	111100	0	65.4	50 - 130	119400	48.7	30	R
Acenaphthene	78020	1700	55570	0	140	55 - 120	62140	22.7	30	s
Acenaphthylene	61720	1700	55570	0	111	55 - 120	57590	6.93	30	
Acetophenone	60360	1700	55570	0	109	54 - 120	52110	14.7	30	
Anthracene	53090	1700	55570	0	95.5	55 - 120	51530	2.97	30	
Atrazine	76690	1700	55570	0	138	55 - 130	69860	9.32	30	S
Benz(a)anthracene	64810	1700	55570	0	117	55 - 125	65020	0.322	30	
Benzaldehyde	53250	1700	55570	0	95.8	20 - 132	46520	13.5	30	
Benzo(a)pyrene	48710	1700	55570	0	87.7	55 - 120	41240	16.6	30	
Benzo(b)fluoranthene	37670	1700	55570	0	67.8	55 - 125	48550	25.2	30	
Benzo(g,h,i)perylene	48660	1700	55570	0	87.6	55 - 120	47980	1.4	30	

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: 95244		Instrument:	SV-5		Metho	od: SW827	0			
MSD Sample ID: H	S15070410-01	MSD	Units:	ug/Kg	Ana	alysis Date:	15-Jul-2015	19:34		
Client ID: USOR-Storage Hopper	Liquid	Run ID: SV-5	_257952	SeqNo: 3	357309	PrepDate:	15-Jul-2015	DF: 1	0	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD Li	PD imit (	Qual
Benzo(k)fluoranthene	48620	1700	55570	0	87.5	55 - 130	55930	14	30	
Bis(2-chloroethoxy)methane	56340	1700	55570	0	101	55 - 120	44020	24.5	30	
Bis(2-chloroethyl)ether	50160	1700	55570	0	90.3	55 - 120	55720	10.5	30	
Bis(2-chloroisopropyl)ether	64060	1700	55570	0	115	55 - 120	65380	2.04	30	
Bis(2-ethylhexyl)phthalate	580500	1700	55570	644200	-115	55 - 125	606300	4.34	30	so
Butyl benzyl phthalate	55120	1700	55570	0	99.2	55 - 125	55420	0.548	30	
Caprolactam	165000	1700	55570	0	297	55 - 140	86930	62	30	SR
Carbazole	57750	1700	55570	0	104	55 - 120	46570	21.4	30	
Chrysene	64880	1700	55570	0	117	55 - 125	58370	10.6	30	
Dibenz(a,h)anthracene	31230	1700	55570	0	56.2	55 - 120	33280	6.38	30	
Dibenzofuran	54050	1700	55570	0	97.3	55 - 120	54210	0.299	30	
Diethyl phthalate	60070	1700	55570	0	108	55 - 120	63290	5.22	30	
Dimethyl phthalate	52200	1700	55570	0	93.9	55 - 120	54980	5.18	30	
Di-n-butyl phthalate	63010	1700	55570	0	113	55 - 125	61580	2.3	30	
Di-n-octyl phthalate	50480	1700	55570	0	90.8	55 - 130	56030	10.4	30	
Fluoranthene	54900	1700	55570	0	98.8	55 - 125	54890	0.0122	30	
Fluorene	63140	1700	55570	0	114	55 - 120	61450	2.71	30	
Hexachlorobenzene	42930	1700	55570	0	77.3	55 - 120	49270	13.8	30	
Hexachlorobutadiene	40080	1700	55570	0	72.1	55 - 120	39840	0.607	30	
Hexachlorocyclopentadiene	2891	1700	55570	0	5.20	50 - 120	0	200	30	SR
Hexachloroethane	71310	1700	55570	0	128	55 - 120	56660	22.9	30	s
Indeno(1,2,3-cd)pyrene	35210	1700	55570	0	63.4	55 - 125	65960	60.8	30	R
Isophorone	58840	1700	55570	0	106	55 - 120	46840	22.7	30	
Naphthalene	69170	1700	55570	0	124	55 - 120	57600	18.3	30	S
Nitrobenzene	50140	1700	55570	0	90.2	55 - 120	52810	5.18	30	
N-Nitrosodi-n-propylamine	56190	1700	55570	0	101	55 - 120	44950	22.2	30	
N-Nitrosodiphenylamine	133400	1700	55570	0	240	55 - 120	106900	22.1		s
Pentachlorophenol	58390	1700	111100	0	52.6	50 - 135	45430		30	
Phenanthrene	50540	1700	55570	0	91.0	55 - 120	51360	1.61		
Phenol	99380	1700	111100	0	89.4	50 - 120	94890	4.62		
Pyrene	78150	1700	55570	0	141	55 - 125	75990	2.8		s
Surr: 2,4,6-Tribromophenol	85030	1700	111100	0	76.5	36 - 126	76850	10.1		
Surr: 2-Fluorobiphenyl	110800	1700	111100	0	99.7	43 - 125	110200	0.544		
Surr: 2-Fluorophenol	97330	1700	111100	0	87.6	37 - 125	76830	23.5		

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Batch ID: 95244 Instrument: SV-5 Method: SW8270

MSD	Sample ID:	HS15070410-01MSD		Units:	ug/Kg	Ana	ılysis Date:	15-Jul-2015	19:34
Client ID:	USOR-Storage Hop	per Liquid Run IE	: SV-5_	257952	SeqNo: 3	357309	PrepDate:	15-Jul-2015	DF: 10
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 4-Ter	rphenyl-d14	98120	1700	111100	0	88.3	32 - 125	100100	2.02 30
Surr: Nitrol	benzene-d5	83070	1700	111100	0	74.8	37 - 125	97350	15.8 30
Surr: Phen	ol-d6	78860	1700	111100	0	71.0	40 - 125	82700	4.76 30

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Batch ID: R258086 Instrument: VOA6 Method: SW8260 **MBLK** Units: ug/Kg Sample ID: VBLKM-150717 Analysis Date: 17-Jul-2015 10:48 Client ID: Run ID: VOA6_258086 SeqNo: 3358801 PrepDate: SPK Ref Control RPD Ref RPD **PQL** SPK Val %REC %RPD Limit Qual Analyte Result Value Limit Value 1,1,1-Trichloroethane U 250 250 1,1,2,2-Tetrachloroethane U 1,1,2-Trichlor-1,2,2-trifluoroethane U 250 1,1,2-Trichloroethane U 250 1,1-Dichloroethane U 250 1,1-Dichloroethene U 250 1,2,4-Trichlorobenzene U 250 1,2-Dibromo-3-chloropropane U 250 1,2-Dibromoethane U 250 1.2-Dichlorobenzene U 250 1,2-Dichloroethane U 250 1,2-Dichloropropane U 250 U 250 1,3-Dichlorobenzene 1,4-Dichlorobenzene Ū 250 500 2-Butanone U 2-Hexanone U 500 4-Methyl-2-pentanone U 500 1000 Acetone Ū U 250 Benzene Bromodichloromethane U 250 Bromoform 250 U Bromomethane U 500 Carbon disulfide U 500 Carbon tetrachloride 250 U Chlorobenzene U 250 Chloroethane U 500 250 Chloroform U Chloromethane Ū 500 cis-1,2-Dichloroethene U 250 250 cis-1,3-Dichloropropene U U 250 Cyclohexane Dibromochloromethane U 250 Dichlorodifluoromethane U 250 U 250 Ethylbenzene

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Instrument:							
MBLK Sample IE	D: <b>VBLKM-150717</b>		Units:	ug/Kg	Ana	alysis Date:	17-Jul-2015	10:48
Client ID:		Run ID: VOA6	_258086	SeqNo: 3	358801	PrepDate:		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Isopropylbenzene	U	250						
m,p-Xylene	U	500						
Methyl acetate	U	250						
Methyl tert-butyl ether	U	250						
Methylcyclohexane	U	250						
Methylene chloride	U	500						
o-Xylene	U	250						
Styrene	U	250	•••••			•••••	***************************************	
Tetrachloroethene	U	250						
Toluene	U	250	•••••	•••••		•••••	•••••	
trans-1,2-Dichloroethene	U	250						
trans-1,3-Dichloropropene	U	250	•••••					
Trichloroethene	U	250						
Trichlorofluoromethane	U	250						
Vinyl chloride	U	100						
Xylenes, Total	U	500						
Surr: 1,2-Dichloroethane-d4	2137	0	2500	0	85.5	70 - 128		
Surr: 4-Bromofluorobenzene	2405	0	2500	0	96.2	73 - 126		
Surr: Dibromofluoromethane	2465	0	2500	0	98.6	71 - 128		
Surr: Toluene-d8	2353	0	2500	0	94.1	73 - 127		

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Instrument: VOA6			Metho	0		
LCS Sample ID:	VLCSW-150717		Units:	ug/L	Ana	lysis Date:	17-Jul-2015 09:59
Client ID:	1	Run ID: VOA6	_258086	SeqNo: 3	358773	PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual
1,1,1-Trichloroethane	49.03	5.0	50	0	98.1	75 - 130	
1,1,2,2-Tetrachloroethane	41.94	5.0	50	0	83.9	74 - 123	
1,1,2-Trichlor-1,2,2-trifluoroethane	e 53.53	5.0	50	0	107	70 - 130	
1,1,2-Trichloroethane	45.21	5.0	50	0	90.4	80 - 120	
1,1-Dichloroethane	50.15	5.0	50	0	100	76 - 120	
1,1-Dichloroethene	53.5	5.0	50	0	107	75 - 130	
1,2,4-Trichlorobenzene	47.54	5.0	50	0	95.1	75 - 126	
1,2-Dibromo-3-chloropropane	47.62	5.0	50	0	95.2	65 - 125	
1,2-Dibromoethane	46.78	5.0	50	0	93.6	80 - 121	
1,2-Dichlorobenzene	43.87	5.0	50	0	87.7	80 - 120	
1,2-Dichloroethane	41.42	5.0	50	0	82.8	76 - 120	
1,2-Dichloropropane	51.4	5.0	50	0	103	80 - 120	
1,3-Dichlorobenzene	44.66	5.0	50	0	89.3	80 - 120	
1,4-Dichlorobenzene	43.52	5.0	50	0	87.0	80 - 120	
2-Butanone	109	10	100	0	109	58 - 132	
2-Hexanone	92.08	10	100	0	92.1	61 - 130	
4-Methyl-2-pentanone	91.76	10	100	0	91.8	65 - 127	
Acetone	97.45	10	100	0	97.4	59 - 137	
Benzene	51.38	5.0	50	0	103	73 - 121	
Bromodichloromethane	48.66	5.0	50	0	97.3	75 - 125	
Bromoform	46.3	5.0	50	0	92.6	70 - 130	
Bromomethane	47.56	5.0	50	0	95.1	60 - 145	
Carbon disulfide	108	10	100	0	108	68 - 141	
Carbon tetrachloride	49.58	5.0	50	0	99.2	75 - 125	
Chlorobenzene	47.25	5.0	50	0	94.5	80 - 120	
Chloroethane	48.38	5.0	50	0	96.8	70 - 130	
Chloroform	48.77	5.0	50	0	97.5	70 - 130	
Chloromethane	53.4	5.0	50	0	107	67 - 123	
cis-1,2-Dichloroethene	54.01	5.0	50	0	108	78 - 120	
cis-1,3-Dichloropropene	53.43	5.0	50	0	107	80 - 120	
Cyclohexane	56.54	5.0	50	0	113	66 - 125	
Dibromochloromethane	45.69	5.0	50	0	91.4	80 - 120	
Dichlorodifluoromethane	46.15	5.0	50	0	92.3	63 - 125	
Ethylbenzene	40.13	5.0	50	0	96.0	80 - 120	

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Instrument:	Method: SW8260					
LCS Sample	le ID: VLCSW-15071	7	Units	ug/L	Ana	alysis Date:	17-Jul-2015 09:59
Client ID:		Run ID: VOA	6_258086	SeqNo: 3	358773	PrepDate:	DF: 1
Analyte	Resul	t PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual
Isopropylbenzene	46.5	9 5.0	50	0	93.2	75 - 130	
m,p-Xylene	96.4	2 10	100	0	96.4	78 - 121	
Methyl acetate	52.2	7 5.0	50	0	105	60 - 130	
Methyl tert-butyl ether	48.6	7 5.0	50	0	97.3	70 - 125	
Methylcyclohexane	55.4	4 5.0	50	0	111	70 - 122	
Methylene chloride	51.5	4 10	50	0	103	65 - 133	
o-Xylene	46.8	1 5.0	50	0	93.6	80 - 120	
Styrene	48.2	5 5.0	50	0	96.5	80 - 120	
Tetrachloroethene	47.7	6 5.0	50	0	95.5	74 - 125	
Toluene	45.8	6 5.0	50	0	91.7	80 - 120	
trans-1,2-Dichloroethene	55.9	8 5.0	50	0	112	78 - 120	
trans-1,3-Dichloropropene	52.7	7 5.0	50	0	106	80 - 120	
Trichloroethene	53.7	6 5.0	50	0	108	80 - 120	
Trichlorofluoromethane	45.5	7 5.0	50	0	91.1	72 - 130	
Vinyl chloride	54.8	8 2.0	50	0	110	70 - 127	
Xylenes, Total	143.	2 15	150	0	95.5	80 - 120	
Surr: 1,2-Dichloroethane-o	14 43.2	7 0	50	0	86.5	70 - 125	
Surr: 4-Bromofluorobenzer	ne 50.6	5 0	50	0	101	72 - 125	
Surr: Dibromofluorometha	ne 48.6	3 0	50	0	97.3	71 - 125	
Surr: Toluene-d8	46.9	6 0	50	0	93.9	75 - 125	

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

MS         Sample ID:         HS15070717-01MS         Units:         ug/Kg         Analysis Date:         17-Jul-2           Client ID:         Run ID:         VOA6_258086         SeqNo: 3358937         PrepDate:           Analyte         Result         PQL         SPK Val         SPK Ref Value         Control RPD Value           1,1,1-Trichloroethane         43.23         5.0         50         0         86.5         79 - 128           1,1,2,2-Tetrachloroethane         46.02         5.0         50         0         92.0         75 - 123           1,1,2-Trichlor-1,2,2-trifluoroethane         40.29         5.0         50         0         80.6         76 - 127	2015 14:02 DF: 1
Analyte         Result         PQL         SPK Val         SPK Ref Value         %REC         Control Limit         RPD Value           1,1,1-Trichloroethane         43.23         5.0         50         0         86.5         79 - 128           1,1,2,2-Tetrachloroethane         46.02         5.0         50         0         92.0         75 - 123	DF: 1
Analyte         Result         PQL         SPK Val         Value         %REC         Limit         Value           1,1,1-Trichloroethane         43.23         5.0         50         0         86.5         79 - 128           1,1,2,2-Tetrachloroethane         46.02         5.0         50         0         92.0         75 - 123	
1,1,2,2-Tetrachloroethane 46.02 5.0 50 0 92.0 75 - 123	
1.1.2-Trichlor-1.2.2-trifluoroethane 40.29 5.0 50 0.80.6.76_127	
1,1,2 (Hornor 1,2,2 amadiocatatic 40.20 0.0 00 0 0 00.0 10 - 121	
1,1,2-Trichloroethane 47.46 5.0 50 0 94.9 77 - 120	
1,1-Dichloroethane 48.61 5.0 50 0 97.2 75 - 124	
1,1-Dichloroethene 45.98 5.0 50 0 92.0 76 - 128	
1,2,4-Trichlorobenzene 42.71 5.0 50 0 85.4 74 - 128	
1,2-Dibromo-3-chloropropane 50.32 5.0 50 0 101 66 - 129	
1,2-Dibromoethane 48.22 5.0 50 0 96.4 70 - 120	
1,2-Dichlorobenzene 43.12 5.0 50 0 86.2 75 - 120	
1,2-Dichloroethane 43.79 5.0 50 0 87.6 73 - 121	
1,2-Dichloropropane 53.31 5.0 50 0 107 75 - 124	
1,3-Dichlorobenzene 41.35 5.0 50 0 82.7 70 - 125	
1,4-Dichlorobenzene 42.09 5.0 50 0 84.2 77 - 120	
2-Butanone 119.4 10 100 0 119 65 - 130	
2-Hexanone 101 10 100 0 101 65 - 133	
4-Methyl-2-pentanone 101.9 10 100 0 102 69 - 130	
Acetone 99.47 20 100 0 99.5 53 - 142	
Benzene 50.76 5.0 50 0 102 79 - 122	
Bromodichloromethane 49.65 5.0 50 0 99.3 79 - 121	
Bromoform 49.67 5.0 50 0 99.3 74 - 125	
Bromomethane 42.19 10 50 0 84.4 68 - 131	
Carbon disulfide 96.54 10 100 0 96.5 78 - 131	
Carbon tetrachloride 42.07 5.0 50 0 84.1 74 - 126	
Chlorobenzene 46.12 5.0 50 0 92.2 79 - 120	
Chloroethane 46 10 50 0 92.0 74 - 126	
Chloroform 48.07 5.0 50 0 96.1 78 - 122	
Chloromethane 51.24 10 50 0 102 69 - 129	
cis-1,2-Dichloroethene 52.65 5.0 50 0 105 78 - 122	
cis-1,3-Dichloropropene 54.11 5.0 50 0 108 77 - 123	
Cyclohexane 42.98 5.0 50 0 86.0 74 - 126	
Dibromochloromethane 48.45 5.0 50 0 96.9 78 - 122	
Dichlorodifluoromethane 37.86 5.0 50 0 75.7 57 - 140	
Ethylbenzene 43.72 5.0 50 0 87.4 80 - 122	

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Inst	Instrument: VOA6			Method: SW8260				
MS Sample	ID: <b>HS15070717-01MS</b>		Units:	ug/Kg	Ana	alysis Date:	17-Jul-2015 14:02		
Client ID:	Run I	D: VOA6	_258086	SeqNo: 3	358937	PrepDate:	DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual		
Isopropylbenzene	40.02	5.0	50	0	80.0	72 - 127			
m,p-Xylene	86.04	10	100	0	86.0	79 - 122			
Methyl acetate	54.12	5.0	50	0	108	69 - 123			
Methyl tert-butyl ether	48.98	5.0	50	0	98.0	76 - 124			
Methylcyclohexane	47.8	5.0	50	0	95.6	77 - 127			
Methylene chloride	53.14	10	50	0	106	65 - 130			
o-Xylene	45.29	5.0	50	0	90.6	80 - 123			
Styrene	47.48	5.0	50	0	95.0	78 - 124			
Tetrachloroethene	42.88	5.0	50	0	85.8	70 - 130			
Toluene	43.97	5.0	50	0	87.9	79 - 120			
trans-1,2-Dichloroethene	51.38	5.0	50	0	103	79 - 122			
trans-1,3-Dichloropropene	53.58	5.0	50	0	107	77 - 120			
Trichloroethene	48.34	5.0	50	0	96.7	75 - 123			
Trichlorofluoromethane	37.77	5.0	50	0	75.5	75 - 126			
Vinyl chloride	44.58	2.0	50	0	89.2	76 - 126			
Xylenes, Total	131.3	10	150	0	87.6	80 - 120			
Surr: 1,2-Dichloroethane-d4	41.97	0	50	0	83.9	70 - 128			
Surr: 4-Bromofluorobenzene	51.73	0	50	0	103	73 - 126			
Surr: Dibromofluoromethane	47.24	0	50	0	94.5	71 - 128			
Surr: Toluene-d8	46.83	0	50	0	93.7	73 - 127			

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Ins	trument:	VOA6		Metho	d: SW826	0		
MSD Sample ID:	HS15070717-01MSD		Units:	ug/Kg	Ana	ılysis Date:	17-Jul-2015	14:26	
Client ID:	Run	ID: VOA6	_258086	SeqNo: 3	358938	PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		R %RPD Li	PD mit Qual
1,1,1-Trichloroethane	43.02	5.0	50	0	86.0	79 - 128	43.23	0.487	30
1,1,2,2-Tetrachloroethane	48.99	5.0	50	0	98.0	75 - 123	46.02	6.24	30
1,1,2-Trichlor-1,2,2-trifluoroethane	41.54	5.0	50	0	83.1	76 - 127	40.29	3.06	30
1,1,2-Trichloroethane	49.84	5.0	50	0	99.7	77 - 120	47.46	4.89	30
1,1-Dichloroethane	47.94	5.0	50	0	95.9	75 - 124	48.61	1.39	30
1,1-Dichloroethene	45.06	5.0	50	0	90.1	76 - 128	45.98	2.03	30
1,2,4-Trichlorobenzene	44.81	5.0	50	0	89.6	74 - 128	42.71	4.8	30
1,2-Dibromo-3-chloropropane	56.34	5.0	50	0	113	66 - 129	50.32	11.3	30
1,2-Dibromoethane	51	5.0	50	0	102	70 - 120	48.22	5.61	30
1,2-Dichlorobenzene	44.96	5.0	50	0	89.9	75 - 120	43.12	4.18	30
1,2-Dichloroethane	46	5.0	50	0	92.0	73 - 121	43.79	4.94	30
1,2-Dichloropropane	53.47	5.0	50	0	107	75 - 124	53.31	0.306	30
1,3-Dichlorobenzene	43.72	5.0	50	0	87.4	70 - 125	41.35	5.58	30
1,4-Dichlorobenzene	44.1	5.0	50	0	88.2	77 - 120	42.09	4.67	30
2-Butanone	122.5	10	100	0	122	65 - 130	119.4	2.56	30
2-Hexanone	107.6	10	100	0	108	65 - 133	101	6.38	30
4-Methyl-2-pentanone	105.4	10	100	0	105	69 - 130	101.9	3.36	30
Acetone	100.4	20	100	0	100	53 - 142	99.47	0.953	30
Benzene	52.43	5.0	50	0	105	79 - 122	50.76	3.23	30
Bromodichloromethane	49.85	5.0	50	0	99.7	79 - 121	49.65	0.407	30
Bromoform	52.01	5.0	50	0	104	74 - 125	49.67	4.6	30
Bromomethane	45.78	10	50	0	91.6	68 - 131	42.19	8.15	30
Carbon disulfide	96.58	10	100	0	96.6	78 - 131	96.54	0.0432	30
Carbon tetrachloride	42.94	5.0	50	0	85.9	74 - 126	42.07	2.06	30
Chlorobenzene	47.5	5.0	50	0	95.0	79 - 120	46.12	2.93	30
Chloroethane	45.42	10	50	0	90.8	74 - 126	46	1.26	30
Chloroform	48.36	5.0	50	0	96.7	78 - 122	48.07	0.607	30
Chloromethane	51.24	10	50	0	102	69 - 129	51.24	0.00861	30
cis-1,2-Dichloroethene	54.11	5.0	50	0	108	78 - 122	52.65	2.75	30
cis-1,3-Dichloropropene	56.97	5.0	50	0	114	77 - 123	54.11	5.14	30
Cyclohexane	44.29	5.0	50	0	88.6	74 - 126	42.98	3.01	30
Dibromochloromethane	49.4	5.0	50	0	98.8	78 - 122	48.45	1.94	30
Dichlorodifluoromethane	36.99	5.0	50	0	74.0	57 - 140	37.86	2.32	30
Ethylbenzene	44.68	5.0	50	0	89.4	80 - 122	43.72	2.15	30

Client: Effective Environmental Inc.

**Project:** USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

**QC BATCH REPORT** 

Batch ID: R258086	Inst	rument:	VOA6		Metho	od: SW826	0					
MSD Sample ID:	HS15070717-01MSD		Units:	ug/Kg	Ana	alysis Date:	17-Jul-2015	14:26				
Client ID:	Run I	D: VOA6	_258086	SeqNo: 3	358938	PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RI %RPD Li	PD mit Q	≀ua		
Isopropylbenzene	40.5	5.0	50	0	81.0	72 - 127	40.02	1.2	30			
m,p-Xylene	87.43	10	100	0	87.4	79 - 122	86.04	1.6	30			
Methyl acetate	55.81	5.0	50	0	112	69 - 123	54.12	3.07	30			
Methyl tert-butyl ether	48.74	5.0	50	0	97.5	76 - 124	48.98	0.497	30			
Methylcyclohexane	31.35	5.0	50	0	62.7	77 - 127	47.8	41.6	30	5		
Methylene chloride	53.26	10	50	0	107	65 - 130	53.14	0.225	30			
o-Xylene	45.48	5.0	50	0	91.0	80 - 123	45.29	0.418	30			
Styrene	48.21	5.0	50	0	96.4	78 - 124	47.48	1.53	30			
Tetrachloroethene	42.55	5.0	50	0	85.1	70 - 130	42.88	0.793	30			
Toluene	44.09	5.0	50	0	88.2	79 - 120	43.97	0.27	30			
trans-1,2-Dichloroethene	50.95	5.0	50	0	102	79 - 122	51.38	0.833	30			
trans-1,3-Dichloropropene	56.01	5.0	50	0	112	77 - 120	53.58	4.43	30			
Trichloroethene	49.76	5.0	50	0	99.5	75 - 123	48.34	2.9	30			
Trichlorofluoromethane	37.85	5.0	50	0	75.7	75 - 126	37.77	0.211	30			
Vinyl chloride	44.42	2.0	50	0	88.8	76 - 126	44.58	0.366	30			
Xylenes, Total	132.9	10	150	0	88.6	80 - 120	131.3	1.19	30			
Surr: 1,2-Dichloroethane-d4	42.29	0	50	0	84.6	70 - 128	41.97	0.766	30			
Surr: 4-Bromofluorobenzene	51.39	0	50	0	103	73 - 126	51.73	0.662	30			
Surr: Dibromofluoromethane	47.74	0	50	0	95.5	71 - 128	47.24	1.06	30			
Surr: Toluene-d8	46.06	0	50	0	92.1	73 - 127	46.83	1.66	30			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Group USA, Corp Date: 20-Jul-15

**Client:** Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

 Batch ID:
 R257687
 Instrument:
 WetChem_HS
 Method:
 SM4500H+ B

 LCS
 Sample ID:
 LCS-257687
 Units:
 pH Units
 Analysis Date:
 10-Jul-2015 15:08

 Client ID:
 Run ID:
 WetChem_HS_257687
 SeqNo: 3350986
 PrepDate:
 DF: 1

 SPK Ref
 Control
 RPD Ref
 RPD

SPK Ref Control RPD Ref RPD
Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual

pH 6.04 0.100 6 0 101 97 - 103

DUP Sample ID: HS15070409-02DUP Units: pH Units Analysis Date: 10-Jul-2015 15:08 Run ID: WetChem_HS_257687 SeqNo: 3350987 PrepDate: Client ID: SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual рΗ 7 0.100 7.07 0.995 10 20.5 0 Temp Deg C @pH 20.7 0.971 10

The following samples were analyzed in this batch:  $\overline{\mathrm{HS15070410\text{-}01}}$ 

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**QC BATCH REPORT** 

ALS Group USA, Corp Date: 20-Jul-15

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368

WorkOrder: HS15070410

Batch ID: R257851 Instrument: WetChem_HS Method: SW1010 LCS Sample ID: LCS-257851 Units: **°F** Analysis Date: 14-Jul-2015 15:20 Client ID: Run ID: WetChem_HS_257851 SeqNo: 3354061 PrepDate: RPD Ref SPK Ref Control RPD **PQL** SPK Val %REC %RPD Limit Qual Analyte Result Value Limit Value 0 Ignitability 83 50.0 81 102 95 - 105 DUP Sample ID: **HS15070399-01DUP** Units: °F Analysis Date: 14-Jul-2015 15:20 Client ID: PrepDate:

Run ID: WetChem_HS_257851 SeqNo: 3354062 SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual

Ignitability 87 50.0 86 1.16 25

The following samples were analyzed in this batch:  $\overline{\mathrm{HS15070410-01}}$ 

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**QC BATCH REPORT** 

Date: 20-Jul-15

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 QUALIFIERS, ACRONYMS, UNITS

WorkOrder: HS15070410

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
---------	-------------

DCS	Detectability	Check Study

DUP Method Duplicate

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MBLK Method Blank

MDL Method Detection Limit
MQL Method Quantitation Limit

MS Matrix Spike

MSD Matrix Spike Duplicate

PDS Post Digestion Spike

PQL Practical Quantitaion Limit

SD Serial Dilution

SDL Sample Detection Limit

TRRP Texas Risk Reduction Program

#### Unit Reported Description

°F Farenheit degrees
mg/Kg Milligrams per Kilogram
mg/L Milligrams per Liter

pH Units

#### **CERTIFICATIONS, ACCREDITATIONS & LICENSES**

Date: 20-Jul-15

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: Effective Environmental Inc.

Project: USOR - Storage Hopper Waste 8368 SAMPLE TRACKING

Work Order: HS15070410

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	Sub
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	VW-3
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	TPH C1
HS15070410-02	TRIP BLANK 062515-96	Login	7/9/2015 7:54:03 PM	RPG	VW-3
HS15070410-01	USOR-Storage Hopper Liquid	Out	7/10/2015 8:52:38 AM	AAP	METPREP
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/10/2015 2:11:55 PM	AAP	19D
HS15070410-01	USOR-Storage Hopper Liquid	Out	7/13/2015 9:26:39 AM	JCJ	METPREP
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/13/2015 9:26:55 AM	JCJ	19D
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/13/2015 9:26:55 AM	JCJ	19D

ALS Group USA, Corp Date: 20-Jul-15

					Sample Receipt Checklist
Client Name: Ef	fective Env-HOU		Date/	Time Received:	09-Jul-2015 13:27
Work Order: HS	S15070410		Rece	ived by:	<u>PS</u>
Checklist complete	ed by: Raegen Giga eSignature	9-Jul-2015 Date	Reviewed by:	Dane J. W	acasey 13-Jul-2015 Date
	<b>3</b>			Ū	
Matrices:	<u>Liquid</u>		Carrier name:	ALS.HS	
0	c/cooler in good condition?		Yes 🕡 Yes 🕡	No I	Not Present
•	ct on sample bottles?		Yes M	No 🗂	Not Present
Chain of custody p	present?		Yes 🐷	No 📉	kii3
Chain of custody s	igned when relinquished and rec	eived?	Yes 🐷	No 🗂	
Chain of custody a	grees with sample labels?		Yes 🦳	No 🔽	
Samples in proper	container/bottle?		Yes 🖁	No 🗍	
Sample containers	intact?		Yes 🐷	No 🗍	
Sufficient sample v	olume for indicated test?		Yes 🐷	No 🗍	
All samples receive	ed within holding time?		Yes 🐷	No 🗍	
Container/Temp B	lank temperature in compliance?		Yes 🐷	No 🗌	
Temperature(s)/Th	nermometer(s):		0.6c/1.1c u/c		IR 5
Cooler(s)/Kit(s):			7058		
Date/Time sample	(s) sent to storage:		07/09/2015 19:05	5	
Water - VOA vials	have zero headspace?		Yes 🐷	No	No VOA vials submitted
Water - pH accepta	able upon receipt?		Yes 🔲	No 🗌	N/A
pH adjusted?			Yes 🔲	No 🔲	N/A
pH adjusted by:					
	imple ID on Label = Tank 07. CC Hold	OC ID = USOR Storaç	ge Hopper Liquid. CO	C information use	d at log in. Trip Blank received placed
Client Contacted:		Date Contacted:		Person Co	ntacted:
Contacted By:	0	Regarding:			
Comments:					

Corrective Action:



ALS Laboratory Group 10450 Stancliff Rd. #210 Houston, Texas 77099 (Tel) 281.530.5656 (Fax) 281.530.5887

## **Chain of Custody Form**

Page __1__ of ___1_

### HS15070410

Effective Environmental Inc.

USOR - Storage Hopper Waste 8368

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

		ALS Project M	lanager:	***************************************	V-IIIIIIIIIIIII	T		•								
Customer Information			Informatio			1		Hara	amete	er/wieti	nod R	eques	t for A	nalysis	Honor:	
Purchase Order FS-24977	Project f	lame USOR - S	Storage Hopp	er Waste		Α 1	ГРН									·····
Work Order 126632	Project Nu	mber 8368				вν	/OCs									******
Company Name Effective Environmental	Bill To Com	pany Effective	Environmen	tal		c s	SVOCs	***************************************					*			
Send Report To Hiren Shah	Invoice	Attn. Hiren Sha	ah			DΤ	exas 11	Metals	(total)							
9950 Chemical Road Address	Ado	2515 S. B	eltline Road			<b>E</b> F										
City/State/Zip Pasadena, TX 77507	City/Stat	e/Zip Mesquite	TX 75181			G										
Phone 281-842-0804		none 972-329-1				) H										
Fax 281-474-2580		Fax 972-329-1					***************************************									
e-Mail:Address hshah@eff-env.com	e-Mail Add	ress <u>hshah@e</u>					<u>-</u>							M		
No. Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	В	С		Ferge:		No. 200	Territoria	<del>Industria</del>	3455	
1 USOR - Storage Hopper Liquid	07/08/15	2:10 p.m.	Liquid		11	X	X	X	D	Ė	F	G	H		Ų	Hold
2		pi	Coopeaco		11		1-		<u> </u>							
3													<del> </del>			
4.							-							$\vdash$		
5							+	-						$\vdash$		
6						<del></del>										
7							1							<del>  -</del>		
8						••	1	-						$\vdash$		
ġ										-						
10:																
						***************************************										
Sampler(s): Please Print & Sign  Emil J. Orsak  Relinguished-by:		ent Method:	1	red Turna 10 Wk Days	round Time:	c Days	<u>-</u>		Dther _		l lour	Re	sults Du	e Date:		
= Cheah [4/8/15]	4:00 p.m	Received by: MULLIN			AAAAninn <u>naaataatauuungoogoogo</u> odu	No	tes:								*,*,*,*,*,*,*	
telinguished by: Hillian State Tight	7:15 Am	Received by (Labor	atory):	100	P	C	poler Tem ೮/С	p. QC		ge:{ <b>C</b> h			v)	ТОО	P-Chec	Mint
Walls 4001 7915	1327 L	lecelved by:	/12/	Son	م		0.6		Lev	el III: S el IV: S	id QC	+ Raw	Data .ike	****	P Level	***************************************
réservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaO	)H 5-Na2S2O3	² 6-NaHSO4	7-Other	8-4 degr	ees C 9-50 7₽#5	35	9F0.5	,		er:						

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

7058

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16-Jul-2015

Dane J. Wacasey ALS Environmental 10450 Stancliff Rd Suite 210 Houston, TX 77099

Re: **HS15070410** Work Order: **1507652** 

Dear Dane,

ALS Environmental received 1 sample on 11-Jul-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton

Chad Whelton Project Manager



Certificate No: MN 532786

#### **Report of Laboratory Analysis**

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-5070 | FAX (616) 399-6185
ALS GROUP USA, CORP. Part of the ALS Laboratory Group. A Campbell Brothers United Company

PACENT SOLUTIONS CONTRACTION

Date: 16-Jul-15

Client: ALS Environmental Project: HS15070410

**Project:** HS15070 **Work Order:** 1507652

**Work Order Sample Summary** 

**<u>Lab Samp ID</u> <u>Client Sample ID</u>** 1507652-01 HS15070410-01

Matrix Liquid Tag Number
USOR-Storage
Hopper Liquid

**Collection Date** 7/8/2015 14:10

Date Received Hold

7/8/2015 14:10 7/11/2015 09:30

Date: 16-Jul-15

Client:	ALS Environmental	<b>QUALIFIERS</b> ,
Project:	HS15070410	,
WorkOrder:	1507652	ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R S	RPD above laboratory control limit  Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
sw	SW-846 Update III
Units Reported	Description
mg/Kg	Milligrams per Kilogram

Client: ALS Environmental

 Project:
 HS15070410

 Sample ID:
 HS15070410-01

 Collection Date:
 7/8/2015 02:10 PM

**Date:** 16-Jul-15

**Work Order:** 1507652

**Lab ID:** 1507652-01 **Matrix:** LIQUID

Analyses	Result	Qual	Report Dilution Qual Limit Units Factor			Date Analyzed
CYANIDE, REACTIVE Cyanide, Reactive	ND		<b>SW7.3</b> .	<b>3.2</b> mg/Kg	1	Analyst: <b>TVD</b> 7/15/2015 04:20 PM
SULFIDE, REACTIVE Sulfide, Reactive	ND		<b>SW7.3</b> .	<b>4.2</b> mg/Kg	1	Analyst: <b>TVD</b> 7/15/2015 03:15 PM

See Qualifiers page for a list of qualifiers and their definitions.

Note:

Client: ALS Environmental

**Work Order:** 1507652 **Project:** HS15070410

Date: 16-Jul-15

### QC BATCH REPORT

DF: <b>1</b> RPD PD ^{Limit} Qual
Limait
te: <b>7/15/2015 03:15 P</b> M
DF: 1
RPD PD ^{Limit} Qual

Note:

Client: ALS Environmental

**Work Order:** 1507652 **Project:** HS15070410

# QC BATCH REPORT

Batch ID: <b>R167668</b>	Instrument ID WETCHEM Method: SW7					.3.3.2						
MBLK	Sample ID: MB-R167668-R167668	ple ID: MB-R167668-R167668					Kg	Analy	sis Date: <b>7</b>	/15/2015 0	4:20 PM	
Client ID:	Run ID:	WETCHEM_150715M			SeqNo: <b>3371688</b>		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	ND	100										
LCS	Sample ID: <b>LCS-R167668-R167668</b>						Kg	Analy	sis Date: <b>7</b>	/15/2015 0	4:20 PM	
Client ID:	Run ID:	WETCH	HEM_15071	5M	Sec	qNo: <b>337</b> 1	1689	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	102.8	100	125		0	82.2	75-125	(	)			
MS	Sample ID: <b>1507652-01A MS</b>				U	nits: <b>mg</b> /	Kg	Analy	sis Date: <b>7</b>	/15/2015 0	4:20 PM	
Client ID: <b>HS15070410-01</b> Run ID: <b>WETCHEM_150715M</b>					Sec	No: <b>337</b>	1691	Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	228.5	100	250		0	91.4	50-150	(	)			
MSD	Sample ID: <b>1507652-01A MSD</b>				U	nits: <b>mg</b> /	Kg	Analy	sis Date: <b>7</b>	/15/2015 0	4:20 PM	
Client ID: <b>HS150704</b>	<b>10-01</b> Run ID:	WETCH	HEM_15071	5M	Sec	No: <b>337</b> 1	1692	Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide, Reactive	228.5	100	250		0	91.4	50-150	228.5	5 C	35		
The following samp	les were analyzed in this batch:	15	507652-01A									

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.





### **CHAIN OF CUSTODY RECORD**

Page 1 of 1

Date

10 Jul 2015

COC ID Due date

**3103** 16 JUL 15

Subcontractor

ALS Laboratory Group

3352 128th Ave.

Phone

6163996070

Holland, MI 494249263

Fax

6163996185

1507652

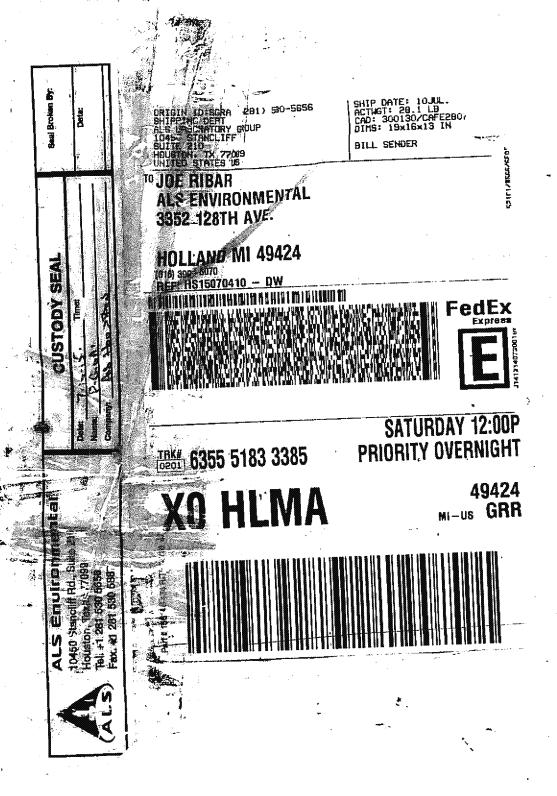
PO	HS15070410	Project Name	HS150704	10
	11013010710		110100101	
Company Name	ALS Houston	Company Name	ALS Houst	on
THE WORLD STREET, IN SEC. OF THE SECOND 1.		Inv Attn	Accounts F	'ayable
Address	10450 Stancliff Rd, Ste 210	Address	10450 Star	ncliff Rd, Ste 210
	Houston, TX 77099		Houston, T	X 77099
Phone	281-530-5656	Phone	281-530-56	356
Email1	Dane.Wacasey@alsglobal.com	Emali2	jumoke.lav	/al@alsglobal.com
Lab ID	Client Samp ID Col	lection Date	Matrix	Analysis Requestr
HS15070410-01	USOR-Storage Hopper Liquid 08-	Jul-15 02:10 pm	Liquid	RCN_W, RS_W

Comments

Please analyze for the analysis listed above. Send report to the emails shown above.

(	0	
٠,	Section 2015	

Relinquished by: Date/Time:		Received by:	Date/Time:	Cooler IDs;	Report/QC Level
R Giga	7/10/15	18.00 7-11-15	9130 PSL	_ 2.0°C	
			,		



#### Sample Receipt Checklist

Client Name:	ALS - HC	DUSTON				Date/Time I	Received:	11-Jul-15	09:30		
Work Order:	order: <u>1507652</u>				Received by	y:					
Checklist comple		Maoma Leonard Signature	1	3-Jul-15 Date	_	Reviewed by:	Chad Wi	Velton		13	-Jul-15 Date
Carrier name:	FedEx										
Shipping contair	ner/cooler	in good condition?		Yes	V	No 🗌	Not Pres	ent 🗌			
Custody seals in	ntact on sl	hipping container/coole	r?	Yes	<b>V</b>	No 🗌	Not Pres	ent 🗌			
Custody seals in	ntact on sa	ample bottles?		Yes		No 🗌	Not Pres	ent 🗸			
Chain of custody	y present	?		Yes	<b>V</b>	No 🗌					
Chain of custody	y signed v	vhen relinquished and ı	eceived?	Yes	✓	No 🗌					
Chain of custody	y agrees \	with sample labels?		Yes	✓	No 🗌					
Samples in prop	oer contair	ner/bottle?		Yes	<b>√</b>	No 🗌					
Sample containe	ers intact?	?		Yes	✓	No 🗌					
Sufficient sample	e volume	for indicated test?		Yes	✓	No 🗌					
All samples rece	eived with	in holding time?		Yes	✓	No 🗌					
Container/Temp	Blank ter	mperature in complianc	e?	Yes	<b>√</b>	No 🗌					
Sample(s) receiv Temperature(s)/				Yes 2.0 C	<b>V</b>	No 🗌	SR	2			
Cooler(s)/Kit(s):											
Date/Time samp		_			015 7	7/13/2015	No VOA viole	a ub maitte d	<b>'</b>		
Water - VOA via				Yes		No 🗔	No VOA vials	submitted			
Water - pH acce pH adjusted?	eptable up	on receipt?		Yes Yes	<b>V</b>	No ☑ No ☑	N/A				
pH adjusted by:				-		140 💌	IV/A 🗀				
Login Notes:											
====			=====		==		:===		===	===	===
Client Contacted	d:		Date Contacted:			Person	Contacted:				
Contacted By:			Regarding:								
Comments:											
CorrectiveAction	า:								SR	C Page	1 of 1